HCD-S550/S880

SERVICE MANUAL

AEP Model
UK Model
E Model
Australian Model
Chinese Model

Ver 1.6 2004.03

Self Diagnosis Supported model

Photo: HCD-S550

HCD-S550/S880 is the amplifier, DVD/CD player and tuner section in DAV-S550/S880.

Model Name Using Similar Mechanism	NEW
Mechanism Type	CDM72B-DVBU12
Base Unit Name	DVBU12
Optical Traverse Unit Name	DBU-1

SPECIFICATIONS

Amplifier section

S550:

Stereo mode	80 W + 80 W (4 ohms at 1 kHz, THD 10 %)
Surround mode	Front: 80 W + 80 W Center*: 80 W Rear*: 80 W + 80 W (4 ohms at 1 kHz, THD 10 %) Subwoofer*: 100 W (3 ohms at 100 Hz, THD 10 %)

S880:

Stereo mode	100 W + 100 W (3 ohms at 1 kHz, THD 10 %)
Surround mode	Front: 100 W + 100 W Center*: 100 W Rear*: 100 W + 100 W (3 ohms at 1 kHz, THD 10 %) Subwoofer*: 100 W (3 ohms at 100 Hz, THD 10 %)

* *Depending on the sound field settings and the source, there may be no sound output.*

Inputs (Analog)	VIDEO 1, 2: Sensitivity: 150 mV Impedance: 50 kilohms
Inputs (Digital)	VIDEO 2 (optical): Sensitivity: –
Outputs (Analog)	VIDEO 1 (AUDIO OUT): Voltage: 2 V Impedance: 1 kilohms PHONES: Accepts low- and high-impedance headphones

– Continued on next page –

SACD/DVD RECEIVER

9-874-135-07
2004C05-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY

Super Audio CD/DVD system

Laser	Semiconductor laser (Super Audio CD/DVD: λ = 650 nm) (CD: λ = 780 nm) Emission duration: continuous
Signal format system	NTSC or NTSC/PAL
Frequency response (at 2 CH STEREO mode)	
	DVD (PCM): 2 Hz to 22 kHz (±1.0 dB) CD: 2 Hz to 20 kHz (±1.0 dB)
Signal-to-noise ratio	More than 80 dB (VIDEO 1 (AUDIO) connectors only)
Harmonic distortion	Less than 0.03 %

FM tuner section

System	PLL quartz-locked digital synthesizer system
Tuning range	87.5 – 108.0 MHz (50 kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohms, unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

System	PLL quartz-locked digital synthesizer system
Tuning range	
European, Middle Eastern, and Philipinne models:	
	531 – 1,602 kHz (with the interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
Antenna	Loop antenna
Intermediate frequency	450 KHz

Video section

Inputs	Video: 1 Vp-p 75 ohms
Outputs	Video: 1 Vp-p 75 ohms S video: Y: 1 Vp-p 75 ohms C: 0.286 Vp-p 75 ohms COMPONENT: Y: 1 Vp-p 75 ohms P_B/C_B, P_R/C_R: 0.7 Vp-p 75 ohms

General

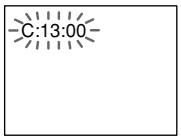
Power requirements	
European model:	230 V AC, 50/60 Hz
Australian and Asian models:	220 – 240 V AC, 50/60 Hz
Mexican model:	120 V AC, 60 Hz
Chinese model:	220 V AC, 50/60 Hz
Taiwan model:	110 – 120 V AC, 50/60 Hz
Other models:	110 – 240 V/220 – 240 V AC, 50/60 Hz
Power consumption	
S550:	120 W (120 V AC) 120 W (230 V AC) 1 W (120 V AC) 2 W (230 V AC) (at the Power Saving Mode)
S880:	135 W (120 V AC) 135 W (230 V AC) 1 W (120 V AC) 2 W (230 V AC) (at the Power Saving Mode)
Dimensions (approx.)	355 × 60 × 323 mm (14 × 2 3/8 × 12 3/4 inches) (w/h/d) incl. projecting parts
Mass (approx.)	3.8 kg (8 lb 7 oz)
Operating temperature	5˚C to 35˚C (41˚F to 95˚F)
Operating humidity	5 % to 90 %

Design and specifications are subject to change without notice

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning. In this case a five-character service number (e.g., C 13 00) with a combination of a letter and digits appears on the screen and the front panel display. Refer to the following table.



First three characters of the service number	Cause and/or Corrective Action
C 13	The disc is dirty. ➡ Clean the disc with a soft cloth.
C 31	The disc is not inserted correctly. ➡ Re-insert the disc correctly.
E XX (xx is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. ➡ Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

Note: Refer to the “5. TEST MODE” (page 20) for another self-diagnosis function.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The label is located on the bottom exterior.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

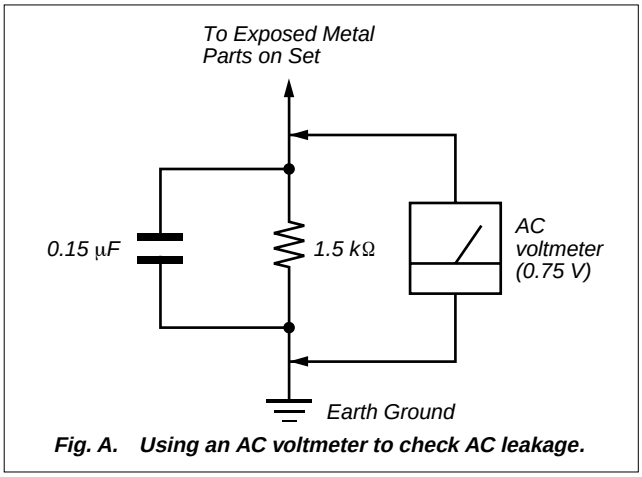


Fig. A. Using an AC voltmeter to check AC leakage.

与安全有关的零部件须知

在原理图上用阴影及⚠标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

JIG ON REPAIRING

When repairing this set, etc., connect the extension cable as the figure shown below.

RELEASING THE DISC SLOT LOCK

The disc slot lock function for the antitheft of an demonstration disc in the store is equipped.

Releasing Procedure:

1. Press two buttons of ⏏ and ■ simultaneously for three seconds.
2. The message “UNLOCKED” is displayed and the slot is unlocked.

Note: When “LOCKED” is displayed, the slot lock is not released by turning power on/off with the POWER button.

CHECKING OF OPERATIONS WITH REMOTE COMMANDERS OF DIFFERENT MODELS

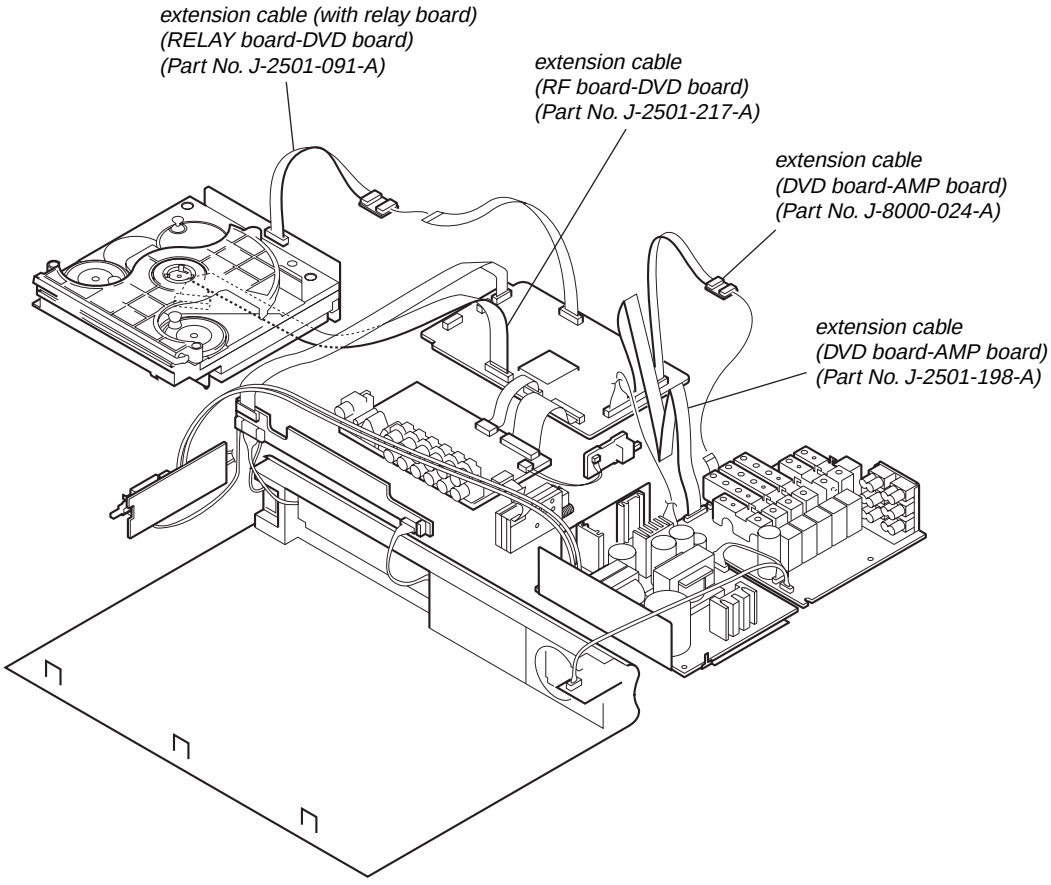
Some of the signal of remote commander vary between generation of player.
Between DAV-S400/S500/S800/C450/C700/C900 and DAV-S550/S880/C770/C900, remote commander signal codes of “FUNCTION”, “BAND”, “ST/MONO” and “MEMORY” are different.
Take notice of the above when you check the operation with remote commanders of different models.

NOTE OF REPLACING THE DVD BOARD

When replacing the DVD board, since the adjustment value is not set up correctly, “Drive Auto Adjustment” can’t be performed.
In this case, initialize Memory in the following procedures.

Procedure:

1. Set the test mode. (See page 20)
2. Press the 2 key of the remote commander, and set the “DRIVE MANUAL OPERATION”. (See page 22)
3. Press the 6 key of the remote commander, and set the “2-6, Memory Check”. (See page 24)
4. Press the CLEAR key of the remote commander, and initialize Memory.

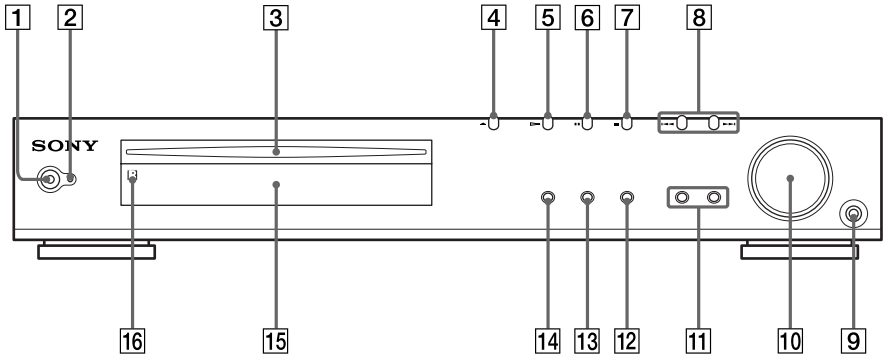


SECTION 2
GENERAL

This section is extracted from instruction manual.

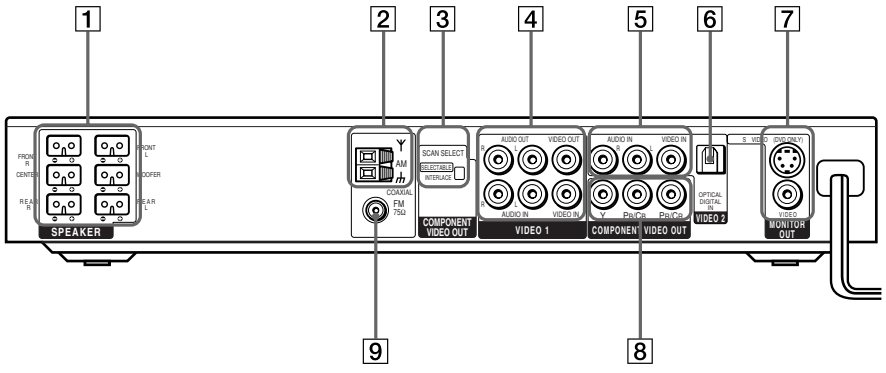
LOCATION OF CONTROLS

Front Panel



1 POWER switc
2 STANDBY indicator
3 Disc slot
4 ⏏ (Eject)
5 ▷ (play)
6 ❚❚ (pause)
7 ■ (stop)
8 ⏮/⏭ PREV/NEXT, PRESET –/+
9 PHONES jack
10 VOLUME control
11 SOUND FIELD –/+
12 DISPLAY
13 BAND
14 FUNCTION
15 Front panel display
16 (remote sensor)

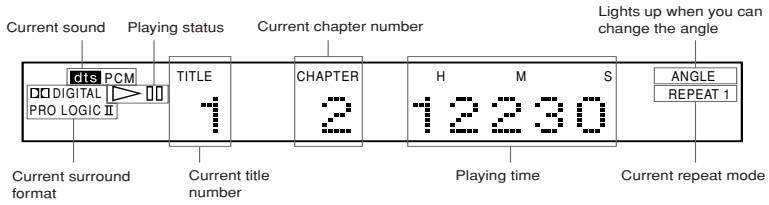
Rear Panel



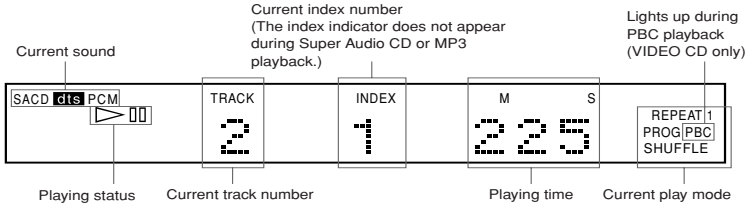
1 SPEAKER jacks
2 AM antenna
3 COMPONENT VIDEO OUT/SCAN SELECT switch
4 VIDEO 1 jacks
5 VIDEO 2 jacks
6 DIGITAL IN (OPTICAL) jack
7 MONITOR OUT (VIDEO/S VIDEO) jacks
8 COMPONENT VIDEO OUT jacks
9 FM 75Ω COAXIAL antenna jack

Front Panel Display

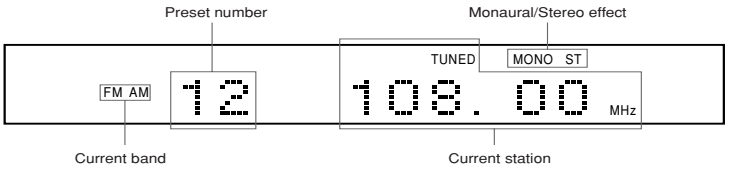
When playing back a DVD



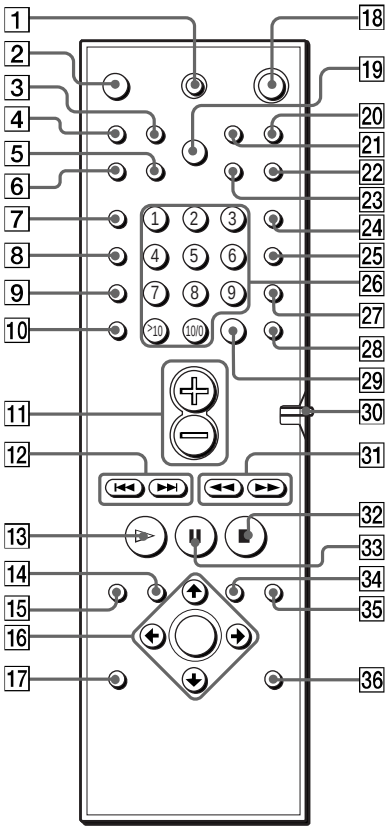
When playing back a Super Audio CD, CD, VIDEO CD, or MP3



When listening to the radio



Remote



Note

This remote control glows in the dark. However, before glowing, the remote must be exposed to light for awhile.

1 TV I/⏻ (on/standby)
2 ⏏ (EJECT)
3 NAME
4 STEREO/MONO
5 MEMORY
6 CLEAR

7 PLAY MODE
8 AUDIO
9 ANGLE
10 SUBTITLE
11 VOL +/–
12 ⏮/⏭ PREV/NEXT, TV CH –/+, PRESET –/+

13 ▷ PLAY/SELECT
14 DVD TOP MENU
15 DVD DISPLAY
16 ←/↑/↓/→/ENTER
17 DVD SETUP
18 ⏻ (standby)

19 DIMMER
20 TV/VIDEO
21 REPEAT
22 MUTING
23 TIME
24 FUNCTION

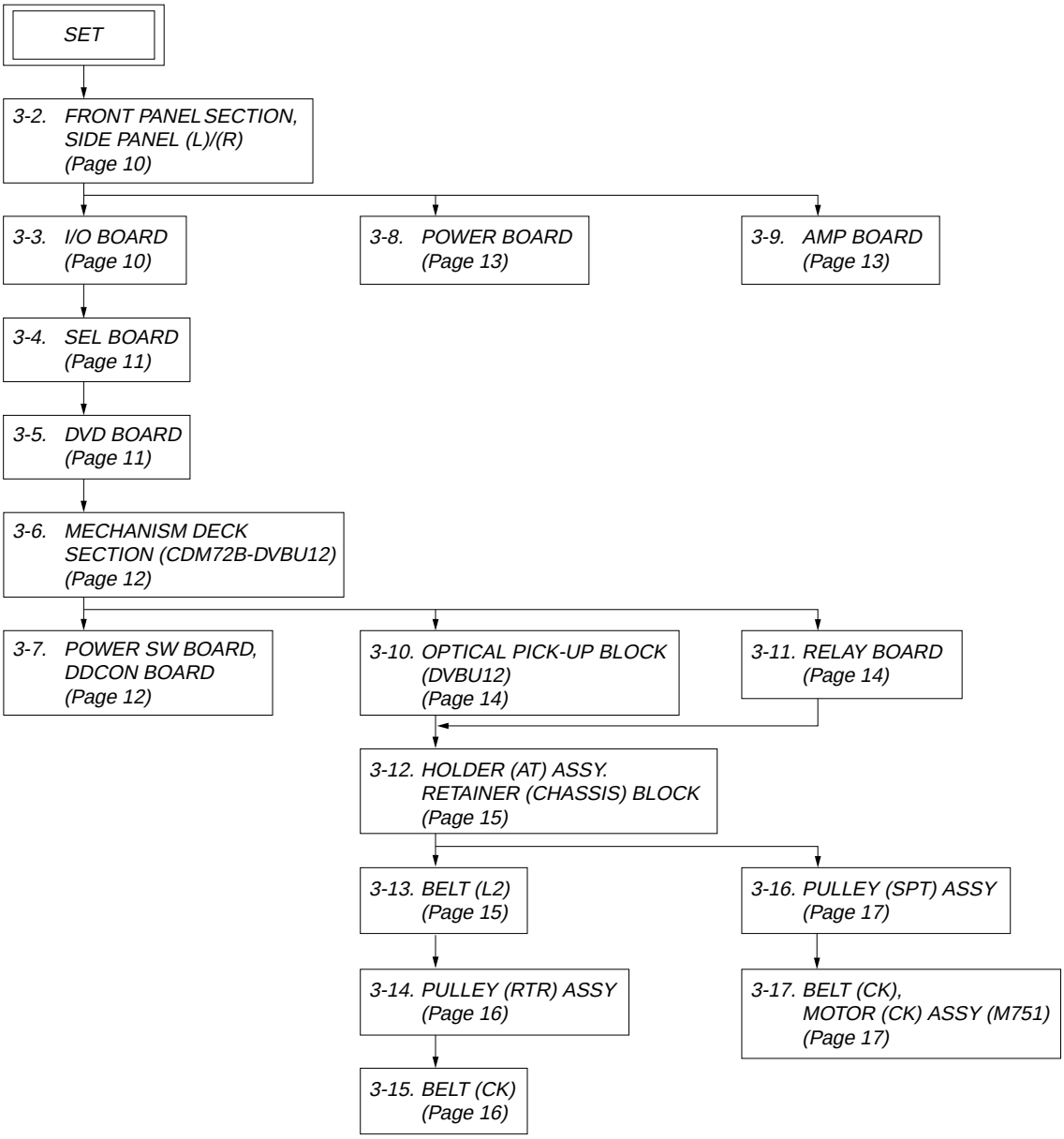
25 BAND
26 Number buttons
27 SOUND FIELD
28 DISPLAY
29 ENTER
30 COMMAND MODE DVD TV switch

31 ◀◀/▶▶/◀▮/▮▶ SLOW, TUNING –/+
32 ■ STOP
33 ▮▮ PAUSE
34 DVD MENU
35 ↩ RETURN
36 AMP MENU

SECTION 3
DISASSEMBLY

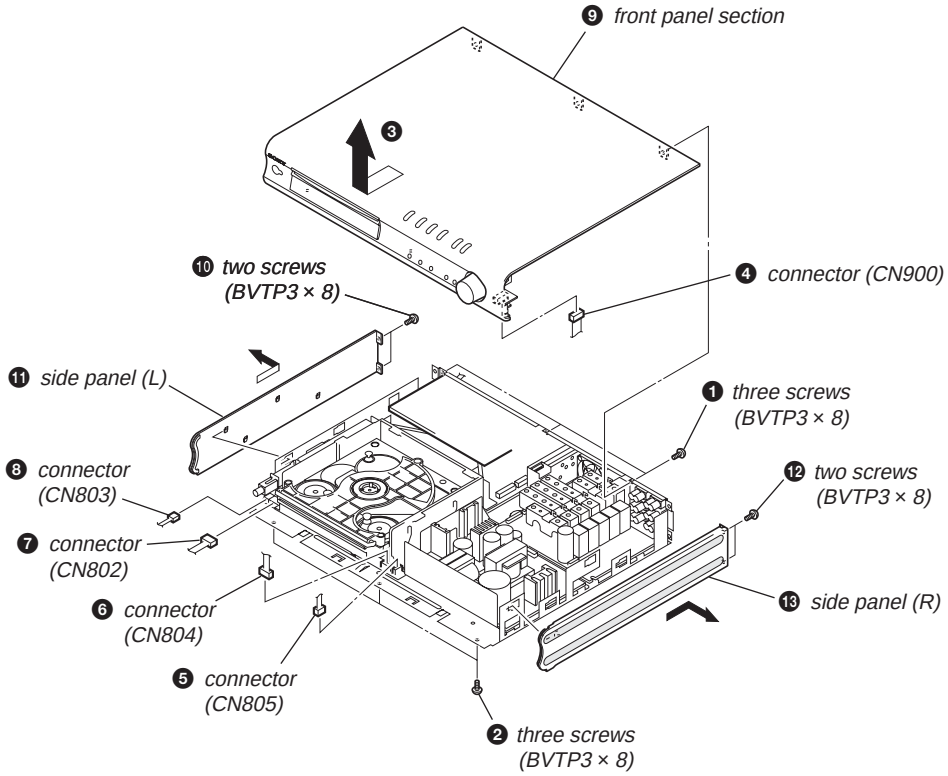
• This set can be disassembled in the order shown below.

3-1. DISASSEMBLY FLOW

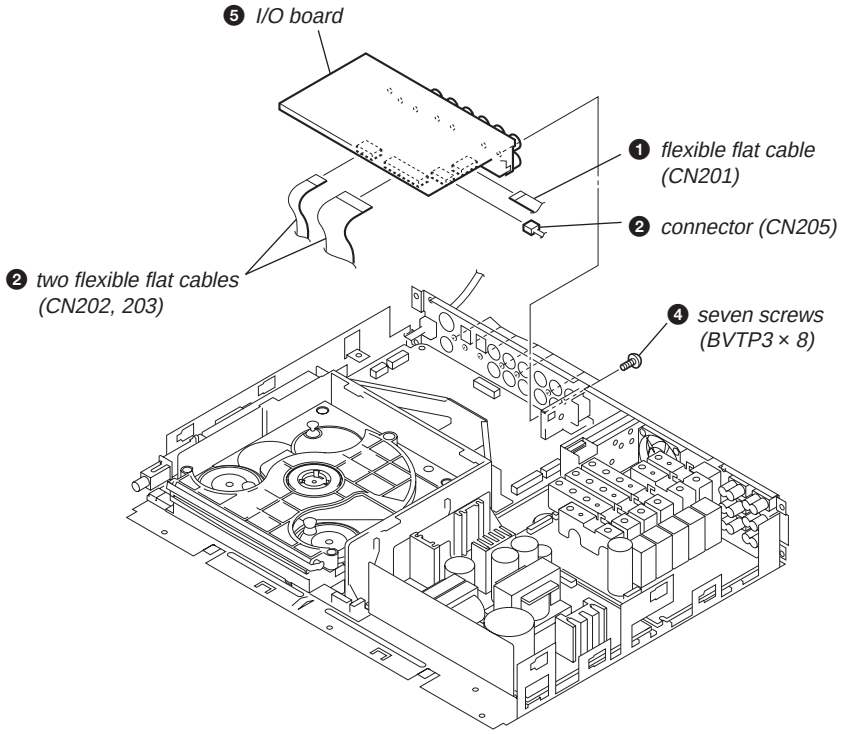

SET
3-2. FRONT PANEL SECTION, SIDE PANEL (L)/(R) (Page 10)
3-3. I/O BOARD (Page 10)
3-8. POWER BOARD (Page 13)
3-9. AMP BOARD (Page 13)
3-4. SEL BOARD (Page 11)
3-5. DVD BOARD (Page 11)
3-6. MECHANISM DECK SECTION (CDM72B-DVBU12) (Page 12)
3-7. POWER SW BOARD, DDCON BOARD (Page 12)
3-10. OPTICAL PICK-UP BLOCK (DVBU12) (Page 14)
3-11. RELAY BOARD (Page 14)
3-12. HOLDER (AT) ASSY. RETAINER (CHASSIS) BLOCK (Page 15)
3-13. BELT (L2) (Page 15)
3-16. PULLEY (SPT) ASSY (Page 17)
3-14. PULLEY (RTR) ASSY (Page 16)
3-17. BELT (CK), MOTOR (CK) ASSY (M751) (Page 17)
3-15. BELT (CK) (Page 16)

Note: Follow the disassembly procedure in the numerical order given.

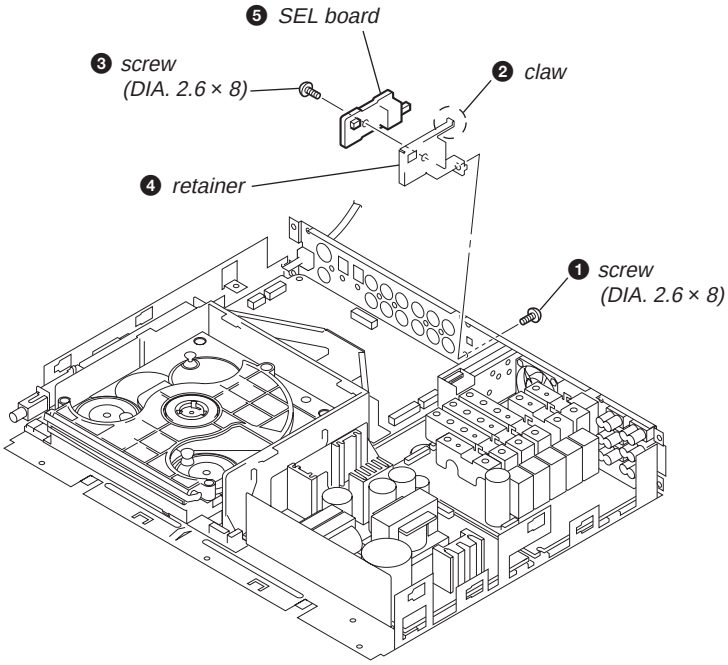
3-2. FRONT PANEL SECTION, SIDE PANEL (L)/(R)


9 front panel section
3
10 two screws (BVTP3 × 8)
4 connector (CN900)
11 side panel (L)
1 three screws (BVTP3 × 8)
8 connector (CN803)
12 two screws (BVTP3 × 8)
7 connector (CN802)
6 connector (CN804)
13 side panel (R)
5 connector (CN805)
2 three screws (BVTP3 × 8)

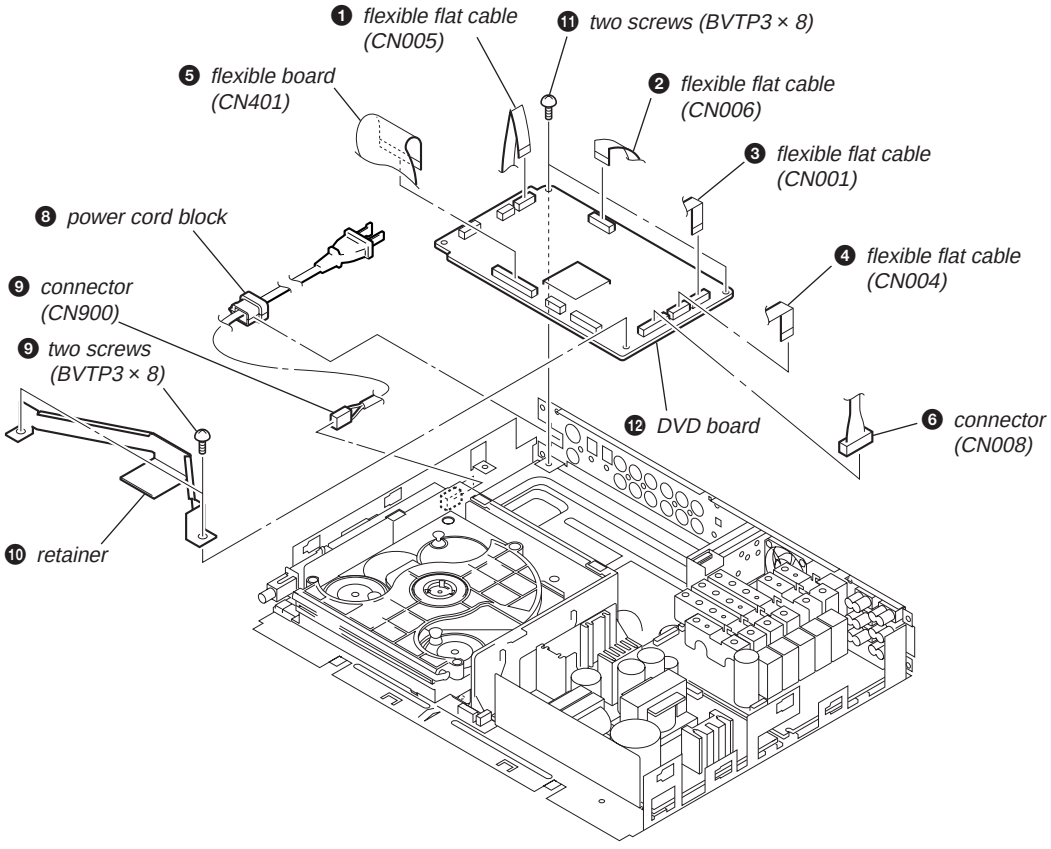
3-3. I/O BOARD



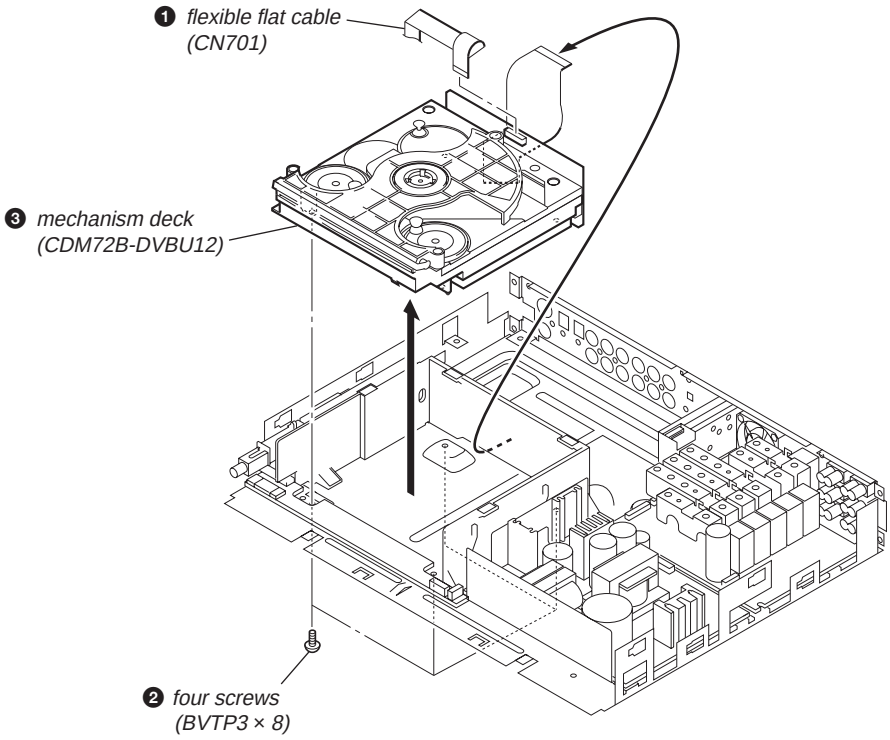
3-4. SEL BOARD



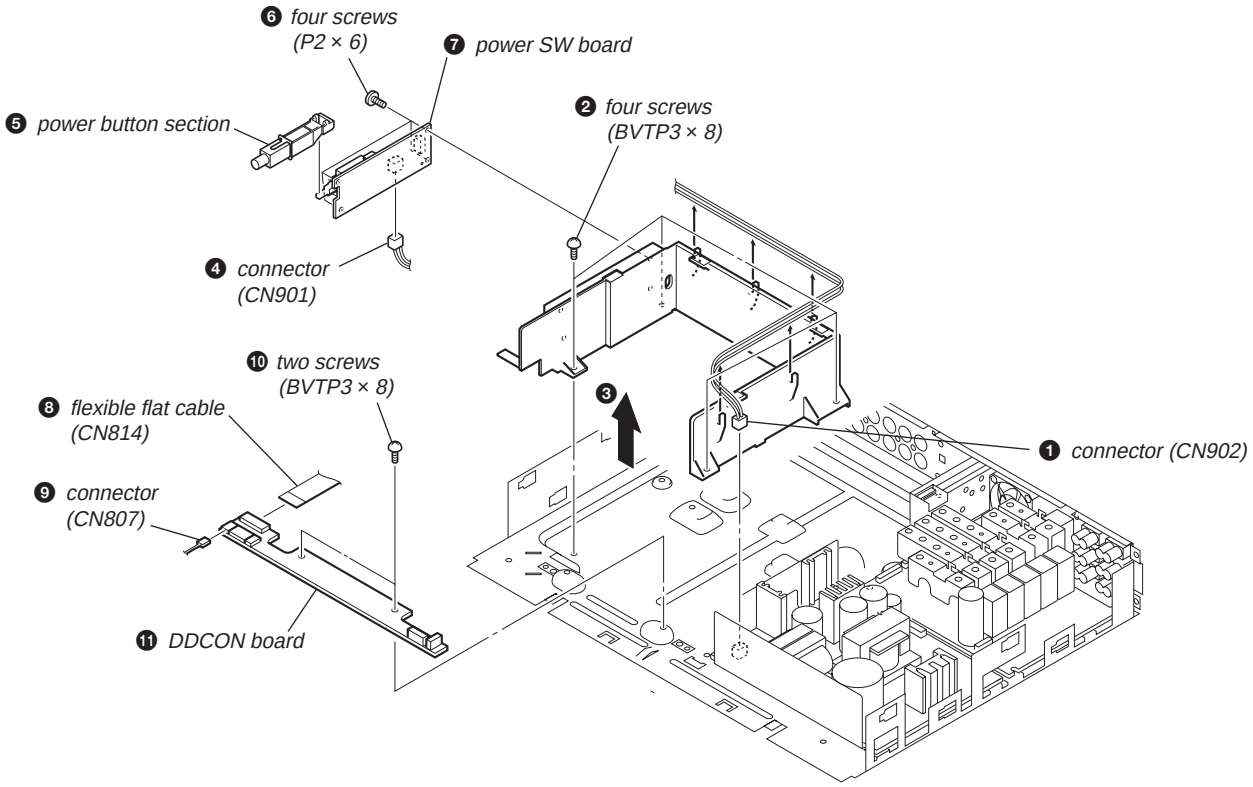
3-5. DVD BOARD



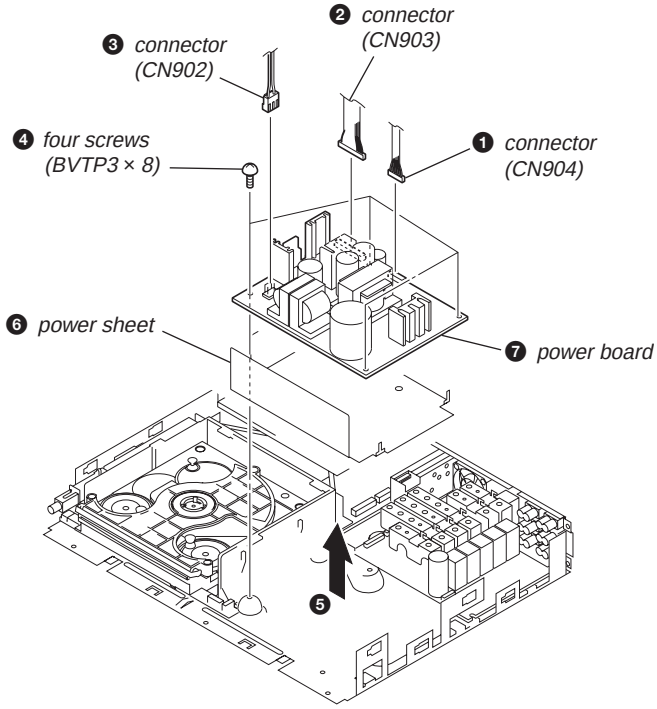
3-6. MECHANISM DECK SECTION (CDM72B-DVBU12)



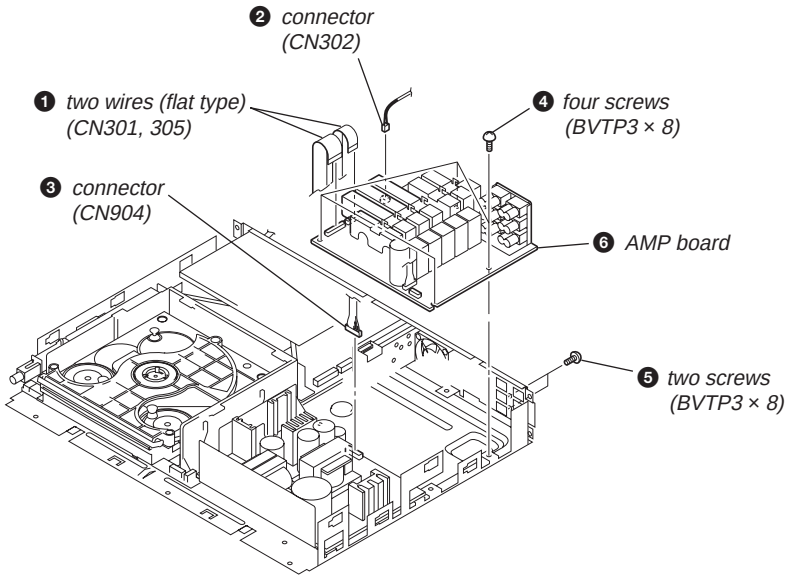
3-7. POWER SW BOARD, DDCON BOARD


❻ four screws (P2 × 6)
❼ power SW board
❺ power button section
❷ four screws (BVTP3 × 8)
❹ connector (CN901)
❿ two screws (BVTP3 × 8)
❸
❽ flexible flat cable (CN814)
❶ connector (CN902)
❾ connector (CN807)
⓫ DDCON board

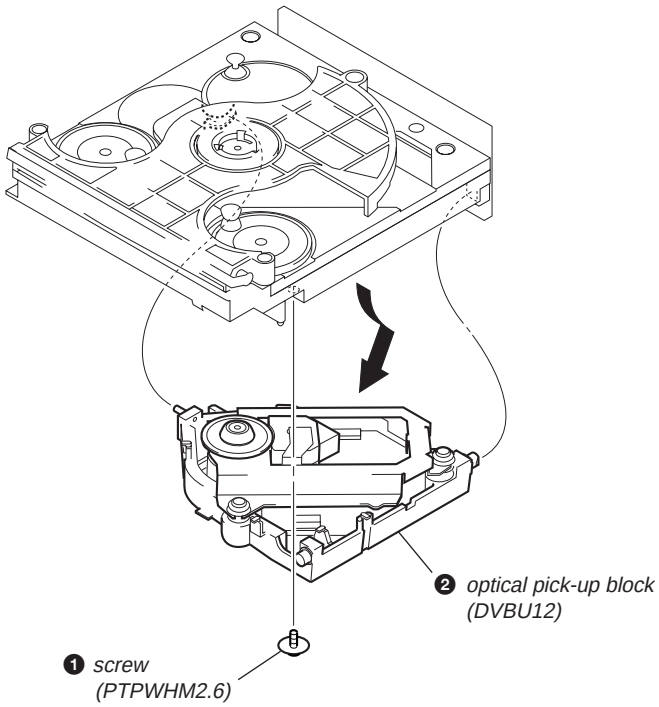
3-8. POWER BOARD



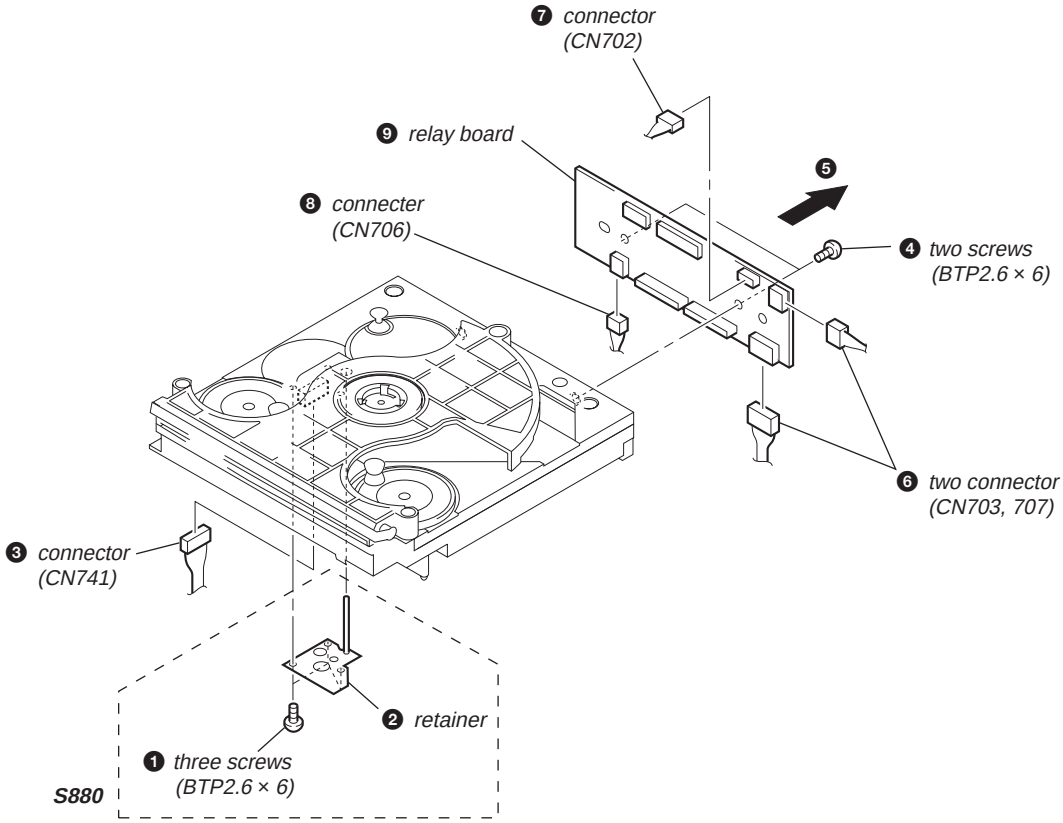
3-9. AMP BOARD



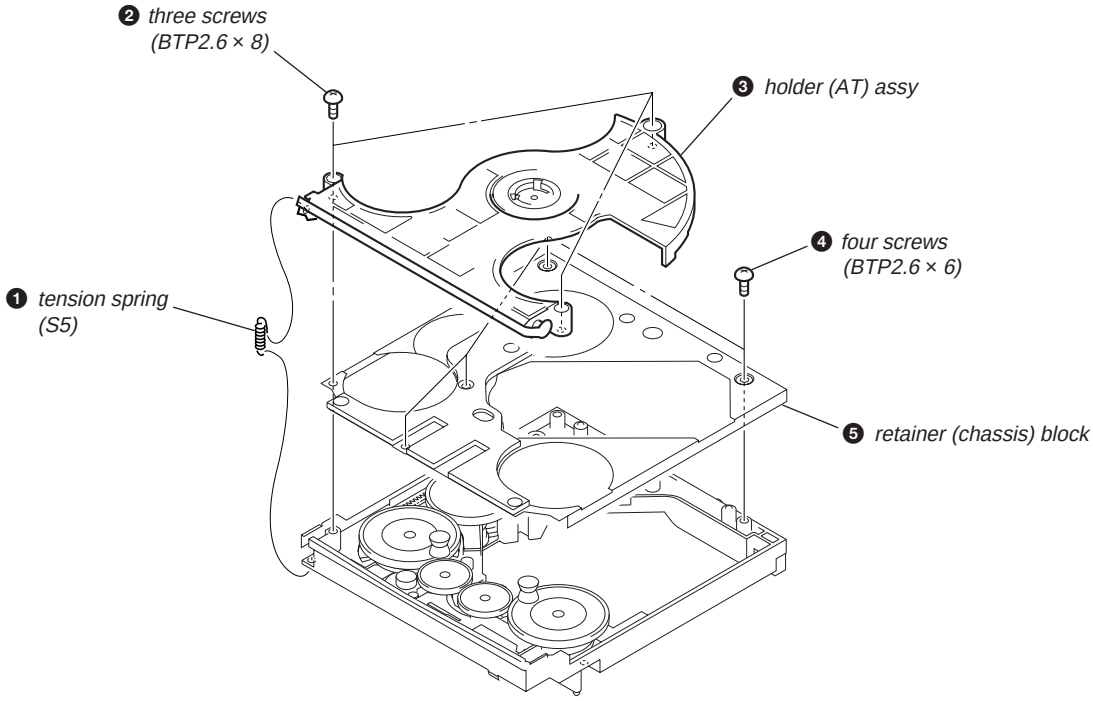
3-10. OPTICAL PICK-UP BLOCK (DVBU12)



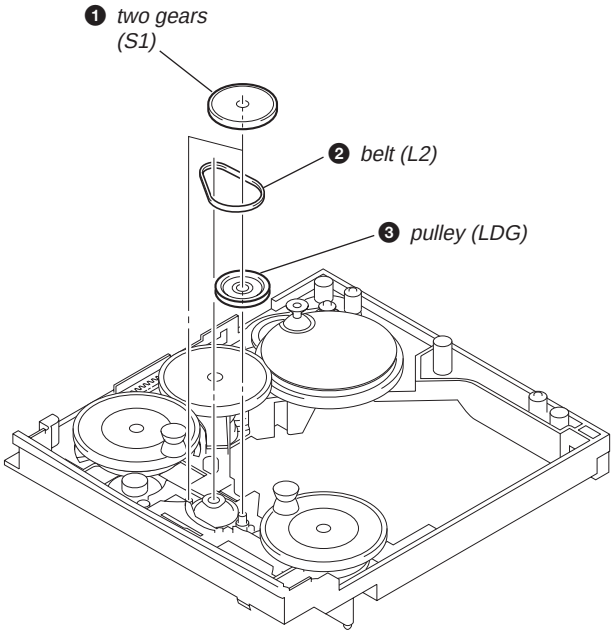
3-11. RELAY BOARD



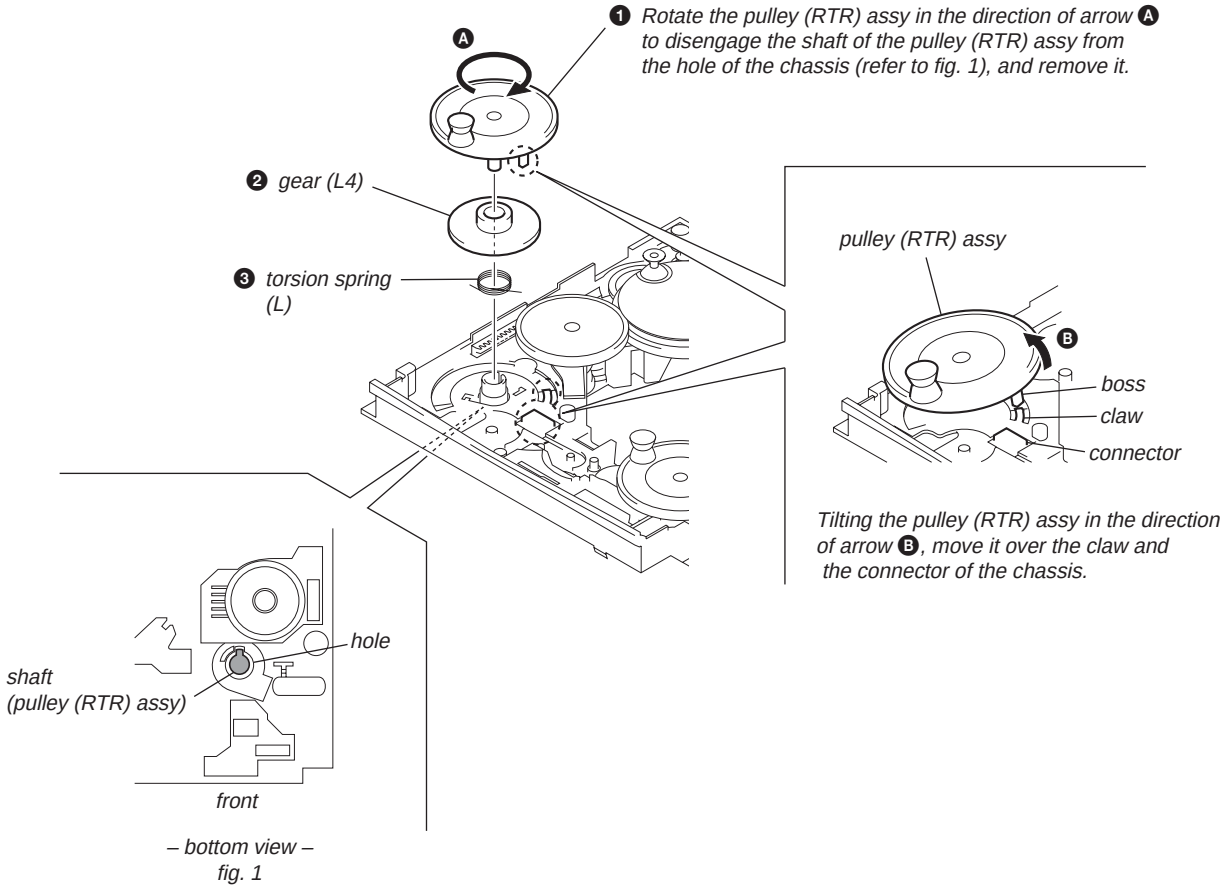
3-12. HOLDER (AT) ASSY, RETAINER (CHASSIS) BLOCK



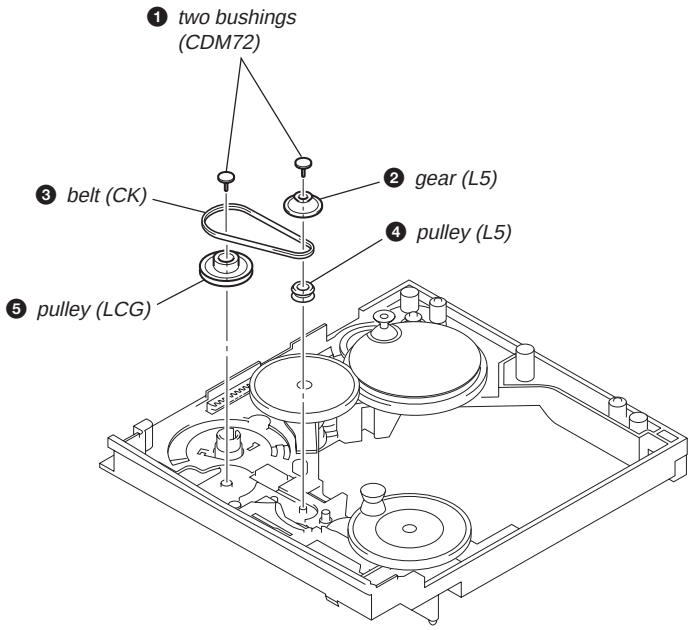
3-13. BELT (L2)



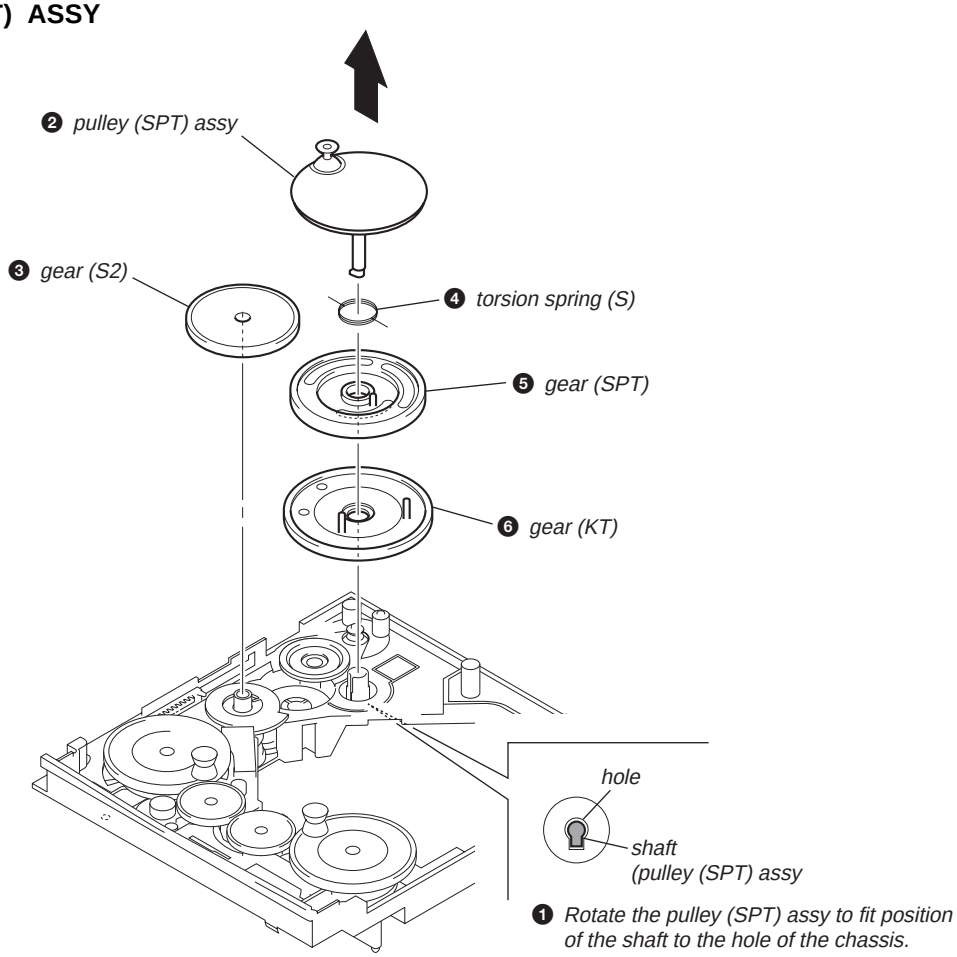
3-14. PULLEY (RTR) ASSY


❶ Rotate the pulley (RTR) assy in the direction of arrow Ⓐ to disengage the shaft of the pulley (RTR) assy from the hole of the chassis (refer to fig. 1), and remove it.
Ⓐ
❷ gear (L4)
❸ torsion spring (L)
pulley (RTR) assy
Ⓑ
boss
claw
connector
Tilting the pulley (RTR) assy in the direction of arrow Ⓑ, move it over the claw and the connector of the chassis.
hole
shaft (pulley (RTR) assy)
front
– bottom view –
fig. 1

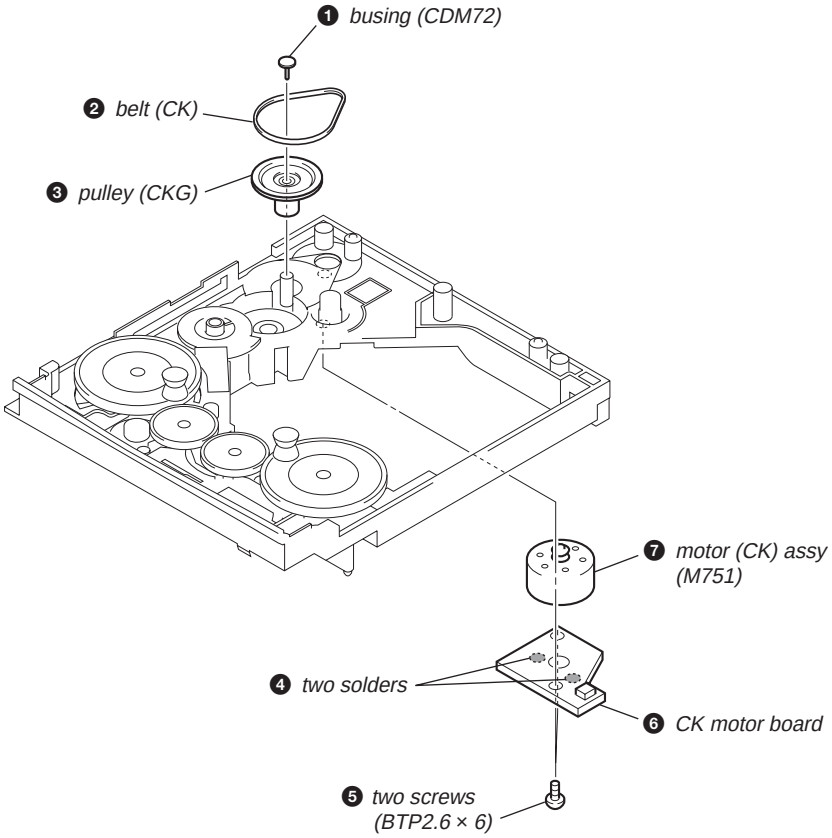
3-15. BELT (CK)



3-16. PULLEY (SPT) ASSY


❷ pulley (SPT) assy
❸ gear (S2)
❹ torsion spring (S)
❺ gear (SPT)
❻ gear (KT)
hole
shaft
(pulley (SPT) assy
❶ Rotate the pulley (SPT) assy to fit position of the shaft to the hole of the chassis.

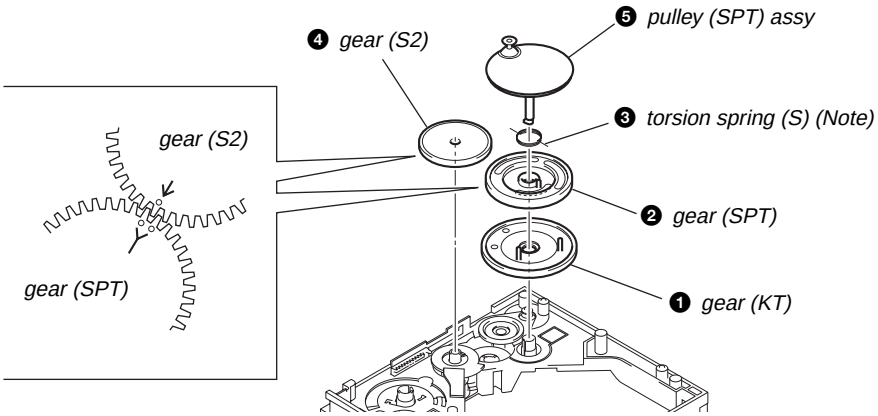
3-17. BELT (CK), MOTOR (CK) ASSY (M751)



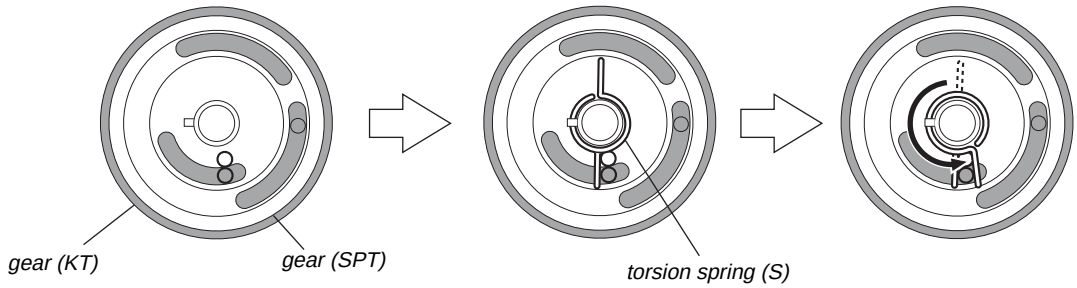
SECTION 4
ASSEMBLY

• This set can be assembled in the order shown below.

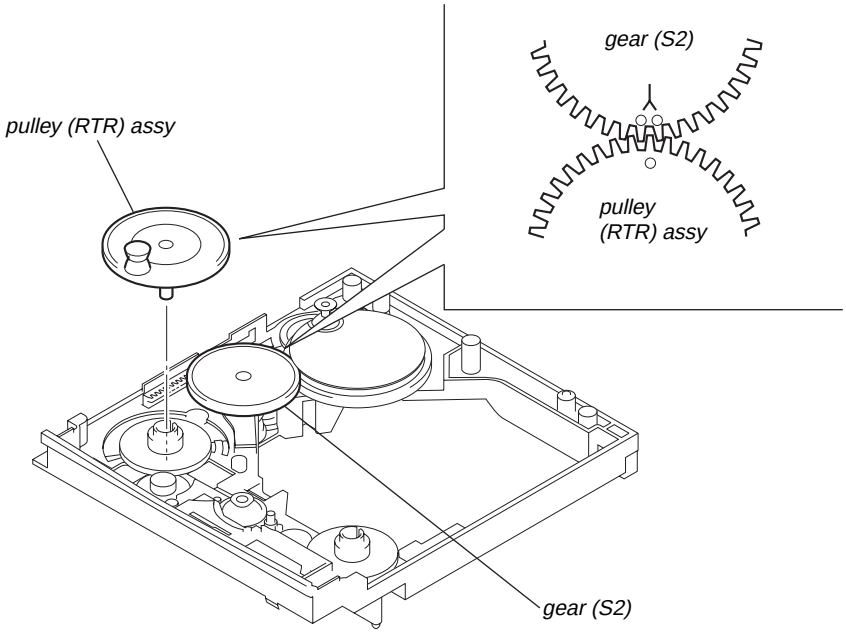
4-1. HOW TO INSTALL PULLEY (SPT) ASSY



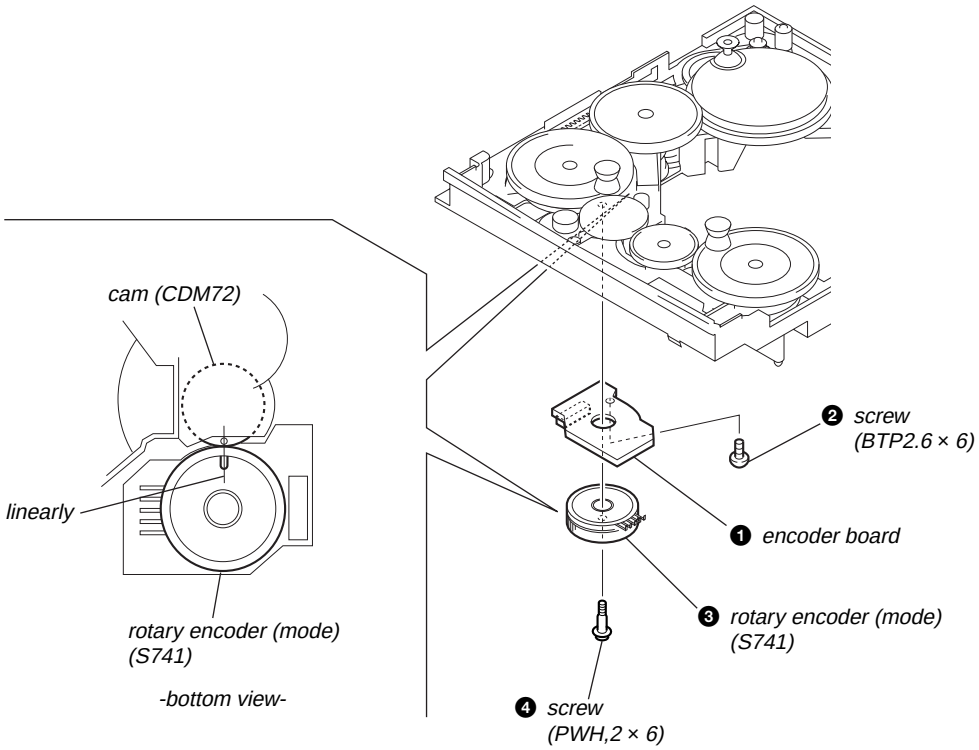
Note: installation of torsion spring (S)



4-2. HOW TO INSTALL PULLEY (RTR) ASSY



4-3. HOW TO INSTALL ROTARY ENCODER (MODE) (S741)



SECTION 5
TEST MODE

[GENERAL DESCRIPTION]

The Test Mode allows you to make diagnosis and adjustment easily using the remote commander and monitor TV. The instructions, diagnostic results, etc. are given on the on-screen display (OSD).

[TEST DISC LIST]

Use the following test disc on test mode.
TDV-520CSO (DVD-SL): PART No. J-2501-236-A
LIV-P01 (CD): PART No. 4-999-032-01
TDV-540C (DVD-DL): PART No. J-2501-235-A
Note: Do not use exiting test disc for DVD.

[STARTING TEST MODE]

1. Press the [POWER] button to turn the power on, and set the function to DVD.
2. While pressing the [■] and [DISPLAY] button, turn the [VOLUME] knob clockwise to enter the test mode.
3. It displays "TEST MODE" on the fluorescent indicator tube, and displays the Test Mode Menu on the monitor screen as follows. (At the bottom of the menu screen, the model name and revision number are displayed)

```
          Test Mode Menu

0. Syscon Diagnosis
1. Drive Auto Adjustment
2. Drive Manual Operation
3. Mecha Aging
4. Emergency History
5. Mecha Error History
6. Version Information
7. Video Level Adjustment
                    Exit: POWER Key
Model    :DAV-Sxxx
Revision :x.xx
```

4. To execute each function, select the desired menu and press its number on the remote commander (RM-SS880J).
5. To release from test mode, press the [POWER] button and turn the power off.

[OPERATING TEST MODE]

0. SYSCON DIAGNOSIS

The same contents as board detail check by serial interface can be checked from the remote commander operation.
On the Test Mode Menu screen, press [10/0] key on the remote commander, and the following Check Menu will be displayed.

```
     ### Syscon Diagnosis ###

           Check Menu
0. Quit
1. All
2. Version
3. EEPROM
4. SPIO
5. SD Bus
6. Video
7. Audio
```

0-0. Quit

Quit the Syscon Diagnosis and return to the Test Mode Menu.

0-1. All (All items continuous check)

This menu checks all diagnostic items continuously. Normally, all items are checked successively one after another automatically unless an error is found, but at a certain item that requires judgment through a visual check to the result, the following screen is displayed for the key entry.

• *Example display*

```
     ### Syscon Diagnosis ###

          Diag All Check
           No.2 Version

        2-3. ROM Check Sum
Check Sum = 2320



Press NEXT Key to Continue
Press PREV Key to Repeat
```

For the ROM Check, the check sum calculated by the Syscon is output, and therefore you must compare it with the specified value for confirmation.
Following the message, press the [NEXT ▶▶I] button to go to the next item, or press the [I◀◀ PREV] button to repeat the same operation again.
To quit the diagnosis and return to Check Menu screen, press the [RETURN] key on the remote commander to display Check Menu.

• Error occurred

If an error occurred, the diagnosis is suspended and error is displayed. Press the [RETURN] key on the remote commander to quit the diagnosis, or press the [I◀◀ PREV] button to repeat the same check where an error occurred, or press the [NEXT▶▶I] button to continue the check from the item next to faulty item.

General Description of Checking Method

Selecting 2 and subsequent items calls the submenu screen of each item. And selecting 2 and subsequent items executes respective menus and outputs the results.
For the contents of each submenu, see "Check Items List" as below.

Check Items List:

- 0-2. Version
  - 0-2-1. All
  - 0-2-2. Revision
  - 0-2-3. ROM Check Sum
  - 0-2-4. Model Type
  - 0-2-5. Region
- 0-3. EEPROM Check
  - 0-3-1. Sampling Check
  - 0-3-2. Detail Check
- 0-4. GP I/O Check
- 0-5. SD Bus Check
- 0-6. Video Check
- 0-7. Audio Check

0-2. Version

0-2-2. Revision
The revision number of ROM (IC204) that the program for the DVD system processor (IC206) is stored.
(4 digits hexadecimal number)

0-2-3. ROM Check Sum
The revision number of ROM (IC204) that the program for the DVD system processor (IC206) is stored.

0-2-4. Model Type
Model name is displayed. (DAV-S550 or DAV-S880)

0-2-5. Region
Model destination code is displayed. (2 digits number)

0-3. EEPROM Check

0-3-1. Sampling Check
EEPROM check at every 64 words.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-3-2. Detail Check
EEPROM check at every 1 word.
It compares read data with write data of each address. When there are discrepancies between two data, it displays error.

0-4. GP I/O Check

Pull up/down setting check of the DVD system processor (IC206) pin 150, 151 and 154 (for clock setting port).

0-5. SD Bus Check

SD bus data check between DVD decoder (IC701) and D-RAM (IC706).

0-6. Video Check

Output the color bars for video level adjustment.

0-7. Audio Check

Output the test signal (1kHz sine wave) for 5.1 CH test.

1. DRIVE AUTO ADJUSTMENT

On the Test Mode Menu screen, press the [1] key on the remote commander, and the Adjustment Menu will be displayed.

```
    ## Drive Auto Adjustment ##
          Adjustment Menu

  0. ALL
  1. DVD-SL
  2. CD
  3. DVD-DL




                        Exit: RETURN
```

Normally, [10/0] is selected to adjust DVD (single layer), CD and DVD (dual layer) in this order. But, individual items can be adjusted for the case where adjustment is suspended due to an error. In this mode, the adjustment can be made easily through the operation following the message displayed on the screen.
The disc used for adjustment must be the one specified for adjustment.

1-0. ALL

Press the [10/0] key on the remote commander, and the servo set data in EEPROM will be initialized. Then, 1. DVD-SL disc, 2. CD disc and 3. DVD-DL disc are adjusted in this order.
Each time one disc was adjusted, it is ejected. Replace it with the specified disc following the message. You can finish the adjustment by pressing the [RETURN] button on the remote commander.

Note: During adjustment of each disc, the measurement for disc type judgment is made. As automatic adjustment does not judge the disc type unlike conventional models, take care not to insert wrong type discs. Also, do not give a shock during adjustment.

1-1. DVD-SL (single layer)

Press the [1] key on the remote commander and insert a DVD single layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Single Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory SL
3. Wait 300 msec
4. Set disc type SL
5. LD on
6. Spindle start
7. Wait 1 sec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 1 sec
14. Sled on
15. Check CLV on
16. Auto LFO adjust
17. Auto focus offset adjust
18. Auto tilt position adjust
19. Auto focus gain adjust
20. Auto focus offset adjust
21. EQ boost adjust
22. Auto loop filter offset adjust
23. Auto track gain adjust

Search Check

24. 32 track jump forward
25. 32 track jump reverse
26. 500 track jump forward
27. 500 track jump reverse

28. All servo stop
29. EEP copy loop filter offset

1-2. CD

Press the [2] key on the remote commander and insert a CD disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

CD Adjustment Steps

1. Sled tilt rest
2. Disc check memory CD
3. Wait 500 msec
4. Set disc type CD
5. LD on
6. Spindle start
7. Wait 500 msec
8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. (TC display start)
14. Wait 1 sec
15. Jitter display start
16. Sled ON
17. Check CLV on

18. Auto loop filter offset adjust
19. Auto focus offset adjust
20. Auto focus gain adjust
21. Auto focus offset adjust
22. EQ boost adjust
23. Auto LFO Adjust
24. Auto track gain adjust

Search Check

25. 32Tj forward
26. 32Tj reverse
27. 500Tj forward
28. 500Tj reverse

29. All servo stop

1-3. DVD-DL (dual layer)

Press the [3] key on the remote commander and insert a DVD dual layer disc following the message. Then the adjustment will be made through the steps below, then adjusted values will be written to the EEPROM.

DVD Dual Layer Disc Adjustment Steps:

1. Sled tilt reset
2. Disc check memory DL
3. Wait 500 msec
4. Set disc type DL
5. LD on
6. Spindle start
7. Wait 1 sec

Layer 1 Adjust

8. Focus servo on 0
9. Auto track offset adjust
10. CLVA on
11. Wait 500 msec
12. Tracking on
13. Wait 500 msec
14. Sled on
15. Check CLV lock
16. Auto loop filter offset adjust, Auto focus adjust
17. Auto focus gain adjust
18. Auto focus offset adjust
19. EQ boost adjust
20. Auto loop filter offset adjust
21. Auto Track Gain Adjust

Search Check

22. 32 track jump forward
23. 32 track jump reverse
24. 500 track jump forward
25. 500 track jump reverse

Layer 0 Adjust

26. Focus jump (L1 → L0)
27. Auto track offset adjust L0
28. CLVA on
29. Wait 500 msec
30. Tracking on
31. Wait 500 msec
32. Sled on
33. Check CLV lock
34. Auto focus filter offset adjust
35. Auto Focus Adjust
36. Auto focus gain adjust
37. Auto focus offset adjust
38. EQ boost adjust
39. Auto Loop Filter Offset
40. Auto track gain adjust

Search Check

41. 32 track jump forward
42. 32 track jump reverse
43. 500 track jump forward
44. 500 track jump reverse

Layer Jump Check

45. Layer jump (L0 ? L1)
46. Layer jump (L1 ? L0)

47. All servo stop

2. DRIVE MANUAL OPERATION

Note: This mode is used for design, and not used in service fundamentally.

On the Test Mode Menu screen, press the [2] key on the remote commander, and the Operation Menu will be displayed. For the manual operation, each servo on/off control and adjustment can be executed manually.

```
## Drive Manual Operation ##
        Operation Menu
1. Disc Type
2. Servo Control
3. Track/Layer Jump
4. Non EEPROM Write Adjust
5. EEPROM Write Adjust
6. Memory Check
7. Disc Check Memory
8. Error Rate Display
9. SACD Water Mark

                    Exit: RETURN
```

In using the manual operation menu, take care of the following points. These commands do not provide protection, thus requiring correct operation. The sector address or time code field is displayed when a disc is loaded.

Note:
1. Set correctly the disc type to be used on the Disc Type screen.
2. In case of an alarm, immediately press the [■] button to stop the servo operation, and press the [POWER] button to turn the power off.

Basic operation:

(controllable from front panel or remote commander)

[POWER]	: Power OFF (release the Test Mode)
[■]	: Servo stop
[⏏]	: Stop and eject/Loading
[RETURN]	: Return to Operation Menu or Test Mode Menu
[I◄◄ PREV], [NEXT►►I]	: Transition between sub modes of menu
[1] to [9], [10/0]	: Selection of menu items
Cursor [↓]/[↑]	: Increase/Decrease in manually adjusted value

2-1. Disc Type

```
Disc Type

Disc Type Select

1. Disc Type Auto Check
2. Set Disc Type DVD
3. Set Disc Type CD
4. Set Disc Type Hybrid

Exit: RETURN
```

2-1-1. Disc Type Auto Check

1) Press the [1] key on the remote commander to display the Disc Type Auto Check screen.
2) Insert a disc and press the [ENTER] key on the remote commander.
3) It judges the type of inserted disc automatically and displays the disc type and so on as below.

```
Disc Type Auto Check

Disc Type     xx
Layer   xx
Mirr Time     xx
Mirr Count    xx
FZC Count     xx
PI Reference  xx
PI Peak xx

ENTER.Execute

Exit: RETURN
```

Disc Type : CD, DVD or Hybrid (SACD)
Layer : SINGLE, DUAL or HYBRID
Mirr Time : Mirror time of between disc surface and record surface when disc type judgment. (hexadecimal number)
Mirr Count : The number of times which mirror counts between disc surface and record surface when disc type judging.
FZC Count : The number of times which focus zero cross points of each layer when lens down.
PI Reference : The average of PI reference voltage. (hexadecimal number)
PI Peak : PI peak level voltage. It performs only when disc type judgment is successful. (hexadecimal number)

2-1-2. Disc Type DVD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: DVD single layer disc (12 cm)
[2]: DVD dual layer disc (0 layer, 12 cm)
[3]: DVD dual layer disc (1 layer, 12 cm)
[4]: DVD-RW disc (12 cm)
[5]: DVD single layer disc (8 cm)
[6]: DVD dual layer disc (0 layer, 8 cm)
[7]: DVD dual layer disc (1 layer, 8 cm)
[8]: DVD-RW disc (8 cm)

2-1-3. Disc Type CD

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: CD disc (normal speed, 12 cm)
[2]: CD disc (double speed, 12 cm)
[3]: CD disc (normal speed, 8 cm)
[4]: CD disc (double speed, 8 cm)
[5]: CD-RW disc (normal speed, 12 cm)
[6]: CD-RW disc (double speed, 12 cm)
[7]: CD-RW disc (normal speed, 8 cm)
[8]: CD-RW disc (double speed, 8 cm)

2-1-4. Disc Type Hybrid

It sets up so that it may judge as a disc type of specification of the disc with which the set was inserted.

[1]: SACD Hybrid disc (SACD layer, 12 cm)
[2]: SACD Hybrid disc (CD layer, normal speed, 12 cm)
[3]: SACD Hybrid disc (CD layer, double speed, 12 cm)
[4]: SACD Hybrid disc (SACD layer, 8 cm)
[5]: SACD Hybrid disc (CD layer, normal speed, 8 cm)
[6]: SACD Hybrid disc (CD layer, double speed, 8 cm)

2-2. Servo Control

Note: Be sure to perform the disc type setup before performing this item.

```
Servo Control
1.LD          off R.Sled FWD
2.Focus       off L.Sled REV
3.SPDL        off U.Sled Reset
4.CLVA        off D.Sled Limit
5.Trk.        off
6.Sled        off
7.Fcs.Srch    off
8.Fcs.OppL    off

0.All Servo Off

                    Exit: RETURN
```

On this screen, the servo on/off control necessary for replay is executed. Normally, turn on each servo from 1 sequentially and when CLVA is turned on, the usual trace mode becomes active. In the trace mode, DVD sector address or CD time code is displayed. This is not displayed where the spindle is not locked.
The spindle could run overriding the control if the spindle system is faulty or RF is not present. In such a case, do not operate CLVA.

[1] LD : Turn on/off the laser.
[2] Focus : Search the focus and turn on the focus.
[3] SPDL : Turn on/off the spindle.
[4] CLVA : Turn on/off normal servo of spindle servo.
[5] Trk. : Turn on/off the tracking servo.
[6] Sled : Turn on/off the sled servo.
[7] FCS. Srch : Turn on/off the focus search.
[8] FCS. OppL : Turn on/off the focus search to another (opposite) layer of designated layer in Disc Type setting. (dual layer disc only)
[10/0] : All servo off.
[R] Sled FWD (right cursor) : Move the sled forward.
[L] Sled REV (left cursor) : Move the sled reverse.
[U] Sled FWD (up cursor) : Reset the sled.
[D] Sled REV (down cursor) : Limit in the sled.

2-3. Track/Layer Jump

```
          Track/Layer Jump
 1.  1Tj        FWD R.Lj L0>L1
 2.  1Tj        REV L.Lj L1>L0
 3.500Tj Fine   FWD U.Fj L0>L1
 4.500Tj Fine   REV D.Fj L1>L0
 5.10kTj Dirc   FWD
 6.10kTj Dirc   REV
 7.20kTj Dirc   FWD
 8.20kTj Dirc   REV

 0. All Servo Off

                        Exit: RETURN
```

On this screen, track jump, etc. can be performed. Only for the DVD dual layer disc, the focus jump and layer jump are displayed in the right field

[1] 1Tj FWD : 1 track jump forward.
[2] 1Tj REV : 1 track jump reverse.
[3] 500Tj FWD: 500 track jump (fine search)forward.
[4] 500Tj REV : 500 track jump (fine search) reverse.
[5] 10kTj FWD: 10k track jump (direct search) forward.
[6] 10kTj REV : 10k track jump (direct search) reverse.
[7] 20kTj FWD: 20k track jump (direct search) forward.
[8] 20kTj REV : 20k track jump (direct search) reverse.
[10/0] : All servo off.

2-4. Non EEPROM Write Adjust

```
      Non EEPROM Write Adjust

 1. Focus Offset
 2. Focus Gain
 3. Trk.  Offset Coarse
 4. Trk.  Offset Fine
 5. Trk.  Gain
 6. EQ    Boost

 0.All Servo Off


                        Exit: RETURN
```

On this screen, each item can be adjusted manually. Select the desired number [1] to [10/0] from the remote commander, and current setting for the selected item will be displayed, then increase or decrease numeric value with the [↑] key or [↓] key. This value is stored in the EEPROM. If CLV has been applied, the jitter is displayed for reference for the adjustment.

[1] Focus Offset : Adjusts focus offset.
[2] Focus Gain : Adjusts focus gain.
[3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
[4] TRK. Offset : Adjusts tracking offset of the DSP (IC401) side.
[5] TRK. Gain : Adjusts track gain.
[6] EQ Boost : Adjusts amount of boost of equalizer.
[10/0] : All servo off.

2-5. EEPROM Write Adjust

```
       EEPROM Write Adjust

 1. Focus  Offset
 2. Focus  Gain
 3. Trk.   Offset Coarse
 4. ──────
 5. Trk.   Gain
 6. EQ     Boost

 0.All Servo Off


                        Exit: RETURN
```

On this screen, each item can be adjusted automatically. Select the desired number [1] to [10/0] from the remote commander, and selected item is adjusted automatically.

[1] Focus Offset : Adjusts focus offset.
[2] Focus Gain : Adjusts focus gain.
[3] TRK. Offset : Adjusts tracking offset of the RF amp (IC001) side.
[5] TRK. Gain : Adjusts track gain.
[6] EQ Boost : Adjusts amount of boost of equalizer.
[10/0] : All servo off.

2-6. Memory Check

Display images are shown as follows, and all two screens are able to switch by the [↑] key (UP) or [↓] key (DW).

```
EEPROM Data 1/2   CD  SL  L0  L1
Focus  Gain       xx  xx  xx  xx
Trk.   Gain       xx  xx  xx  xx
Focus  Offset     xx  xx  xx  xx
Trk.   Offset     xx  xx  xx  xx
EQ.    Boost      xx  xx  xx  xx
PI     Level      xx  xx  --  --
Fcs. Balance      --  xx  --  --
Jitter xx         xx  xx  xx
Mirror Time       xx  xx  xx  --
FE Level          --  xx  --  --
Traverse Lv1.     --  xx  --  --
Next:DW Default:CLR    Exit:RET
```

```
EEPROM Data 2/2    CDRW DVDRW
Focus  Gain          xx    xx
Trk.   Gain          xx    xx
Focus  Offset        xx    xx
Trk.   Offset        xx    xx
EQ.    Boost         xx    xx




Next:UP Default:CLR        Exit:RET
```

On this screen, current servo adjusted data stored in the EEPROM are displayed. The adjusted data are initialized by pressing the [CLEAR] key, but be careful that they are not recoverable after initialization.
Before clearing the adjusted data, make a note of the set data. This screen will also appear if [0]-All is selected in the Drive Auto Adjustment. In this case, default setting cannot be made.

2-7. Disc Check Memory

```
        Disc Check Memory

 1. SL Disc check
 2. SL Disc check
 3. SL Disc check




                        Exit: RETURN
```

On this screen, measure the mirror time of chucked disc, and write to the EEPROM.

2-8. Error Rate Display

```
         Error Rate Display
             UC   CR  ADD
PI1 Err  Now xx xxxx xxxxxxxx
         Max xx xxxx xxxxxxxx
         Avg xx xxxx xxxxxxxx
PI2 Err  Now xx xxxx xxxxxxxx
         Max xx xxxx xxxxxxxx
         Avg xx xxxx xxxxxxxx
PO  Err  Now xx xxxx xxxxxxxx
         Max xx xxxx xxxxxxxx
         Avg xx xxxx xxxxxxxx

                        Exit: RETURN
```

On this screen, measure and display the error rate.

UC : Incorrect value
CR : Correct value
Add : Address

2-9. SACD Water Mark Check

```
SACD Water Mark Check



 PSP AMP
 PSN




 Start: ENTER          Exit: RETURN
```

On this screen, measure the PSP AMP value and PSN value of SACD water mark.

3. MECHA AGING

On the Test Mode Menu screen, selecting [3] executes the aging of the mechanism deck.

```
      ### Aging Test MENU ###

           Operation Menu

1. Open/Close Test




                        Exit: RETURN
```

1) On the Aging Test MENU screen, press the [1] key on the remote commander to display the Open/Close Test screen.
2) Insert discs and press the [ENTER] key on the remote commander.
3) Is starts the aging.
   During aging, the disc number, operating status and repeat cycle are displayed. Aging can be aborted at any time by pressing the [■] key. After the operation is stopped, press the [■] key or [RETURN] key aging to return to the Aging Test MENU.

4. EMERGENCY HISTORY

On the Test Mode Menu screen, selecting [4] displays the information such as servo emergency history.
The history information from last 1 up to 10 can be scrolled with the [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with ten keys.

```
       ### EMG. History ###

  Laser Hours     CD   xxxxhxxm
                  DVD  xxxxhxxm

a.   bb xx xx xx  xx xx xx xx
     xx xx xx xx  xx xx xx xx

a.   bb xx xx xx  xx xx xx xx
     xx xx xx xx  xx xx xx xx

   Select:1-9        Scroll:UP/DOWN
  (1.Latest EMG.)     Exit: RETURN
```

xxxxhxxm : The laser on total hours. Data below minutes are omitted.
a. : Error number.
bb : Error code.
xx : Not used.

• Clearing History Information

Clearing laser hours:
Press the [DVD DISPLAY] and [CLEAR] keys in this order.
Then both CD and DVD data are cleared.

Clearing emergency history:
Press the [DVD TOP MENU] and [CLEAR] keys in this order.

Initializing set up data:
Press [DVD MENU] and [CLEAR] keys in this order.
The data have been initialized when “Set Up Initialized” message is displayed. The EMG. History screen will be restored soon.

- Code list of Emergency History
  10: Communication to RF AMP (IC001) failed.
  11: Each servo for focus, tracking, and spindle is unlocked.
  12: Check sum error of EEPROM (IC203).
  14: Communication to servo DSP (IC401) failed, or servo DSP decoder (IC801) is faulty.
  15: Communication to DVD decoder (IC701) failed, or DVD decoder (IC801) is faulty.
  16: Communication to DSD decoder (IC801) failed, or DSD decoder (IC801) is faulty.
  20: Initialization of sled servo failed. It is not placed in the initial position.
  23: Sled servo operation error.
  24: Made a request to move the sled servo to wrong position.
  30: Tracking balance adjustment error.
  31: Tracking gain adjustment error.
  33: Focus bias adjustment error.
  34: Focus gain adjustment error.
  35: Equalizer adjustment error.
  40: Focus servo does not operate.
  41: With a DVD dual layer disc, focus jump failed.
  50: CLV (spindle) servo does not operate.
  51: Spindle does not stop.
  60: Made a request to seek nonexistent address.
  61: Seek error of retry more than regulated times.
  70: Control data could not be read.
  80: Disc reading failed.

5. MECHA ERROR HISTORY

On the Test Mode Menu screen, selecting [5] displays the information of mechanism deck error history.
The history information from last 1 up to 8 can be scrolled with the [↑] key or [↓] key. Also, specific information can be displayed by directly entering that number with ten keys.

```
    ### Mecha Error History ###

  1. aa bb cc xx xx xx xx xx
  2. aa bb cc xx xx xx xx xx
  3. aa bb cc xx xx xx xx xx
  4. aa bb cc xx xx xx xx xx
  5. aa bb cc xx xx xx xx xx
  6. aa bb cc xx xx xx xx xx
  7. aa bb cc xx xx xx xx xx
  8. aa bb cc xx xx xx xx xx

                      Scroll:UP/DOWN
(1.Latest Err.)         Exit: RETURN
```

aa: Initialization is completed or not.
  FF : Complete.
  other number : Not complete.
bb: Operating status of mechanism deck at an error occurred.
  (lod sq jcp)
  00 : Initializing.
  10 to 15 : Open operating.
  16 to 19 : Kicking cause open failed.
  1A to 1F : Open operating.
  20 to 27 : Complete the open operation.
  28 : No disc and complete the open operation.
  29 to 2F : Complete the open operation.
  30 to 3F : Close requesting.
  40 to 4F : Open requesting.
  50 to 5F : Close operating.
  60 to 6F : Complete the chucking operation.
  80 to 8F : Complete the release operation.
  (BU is home position)
  90 to 9F : BU down operating.
  A0 to AF : Opening/closing the shutter. Or stationary state in open/close the shutter is enablement.
  B0 to BF : BU up requesting.
  C0 to CF : BU down requesting.
  D0 to DF : BU upping.
  E0 to EF : No disc checking in disc loading.
cc: Operating status of mechanism deck at an error occurred.
  (lod oq jcp)
  00 : Complete the operation.
  10 to 1F : Open operating.
  20 to 2F : Close operating.
  30 to 3F : Release operating.
  60 to 6F : Chucking operating.
  70 to 7F : Kicking operating.
  80 to 8F : Returning the BU to home position. (after kicking)

SECTION 6
ELECTRICAL ADJUSTMENT

6. VERSION INFORMATION

On the Test Mode Menu screen, selecting [6] displays the ROM version and region code.
The parenthesized hexadecimal number in version field is checksum value of ROM.

```
    ## Version Information ##

IF con.   Ver.x. xx

SYScon.   Ver.x. xx  (xxxx)
      Model      DAV-Sxxx
      Region     0x


Front End Ver.x.xx


                       Exit: RETURN
```

IF con. : The version of system controller (IC901).
SYScon. : The version of DVD system processor (IC206).
Front End: The version of mechanism controller (IC301).

7. VIDEO LEVEL ADJUSTMENT

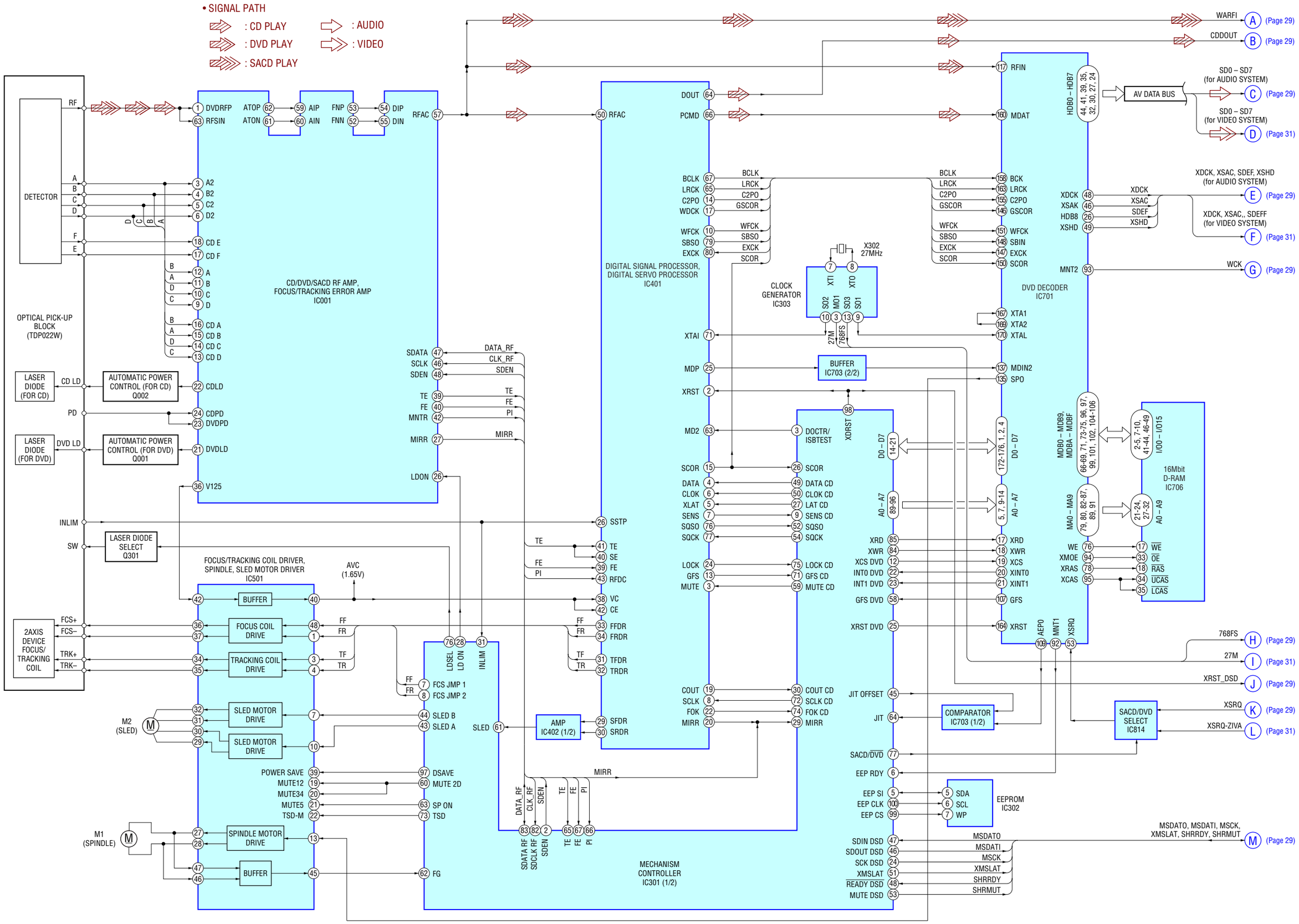
On the Test Mode Menu screen, selecting [7] displays color bars for video level adjustment. During display of color bars, OSD disappears but the menu screen will be restored if pressing the [RETURN] key.

AUTO SERVO ADJUSTMENT

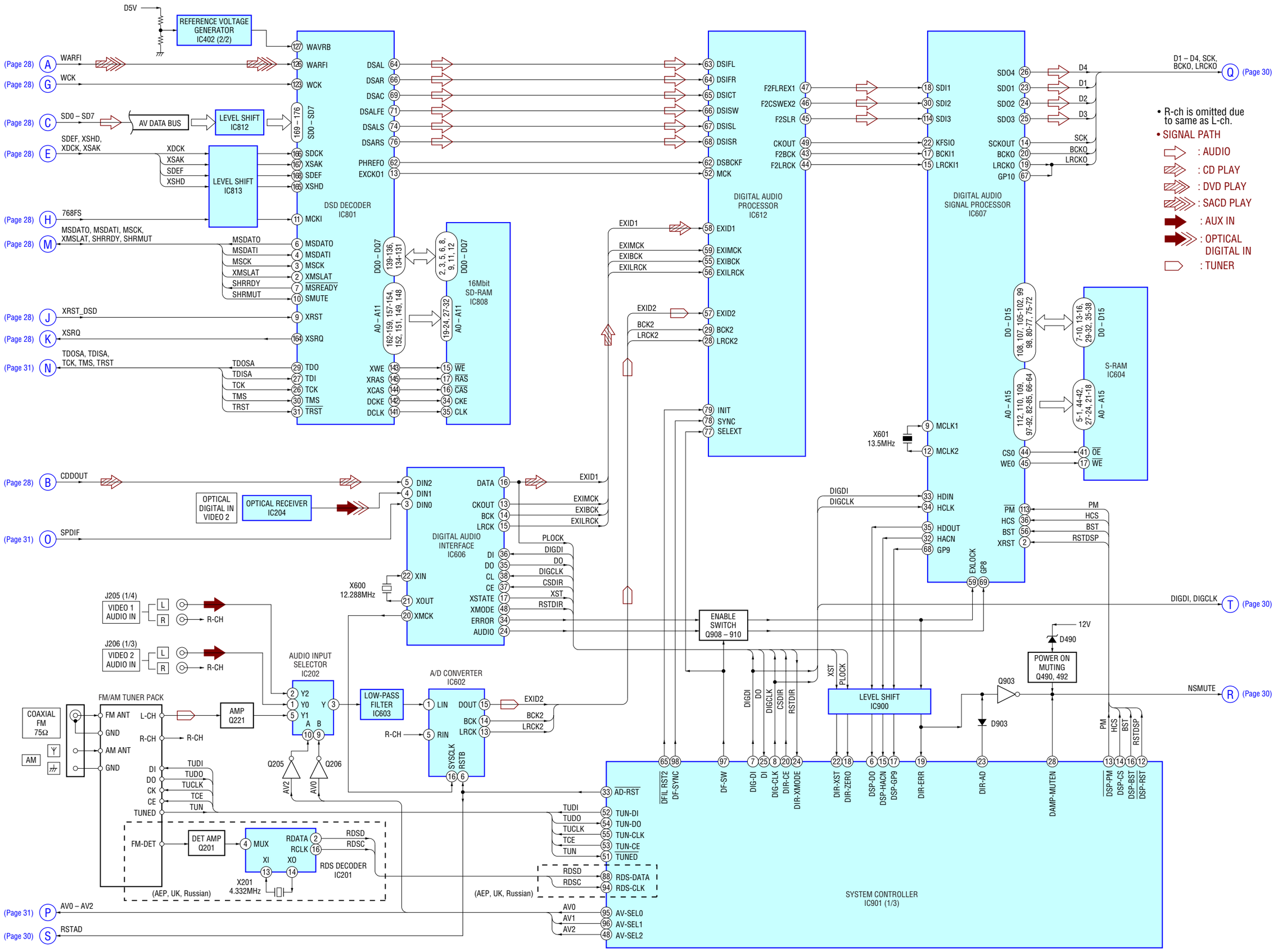
After parts related to the servo circuit (RF amplifier (IC001), DSP (IC401), motor driver (IC501), EEPROM (IC302) so on) are replaced, re-adjusting the servo circuit is necessary. Select “ALL” at “1. DRIVE AUTO ADJUSTMENT” (Refer to page 21 in TEST MODE) and adjust DVD-SL (single layer), CD and DVD-DL (dual layer).

SECTION 7
DIAGRAMS

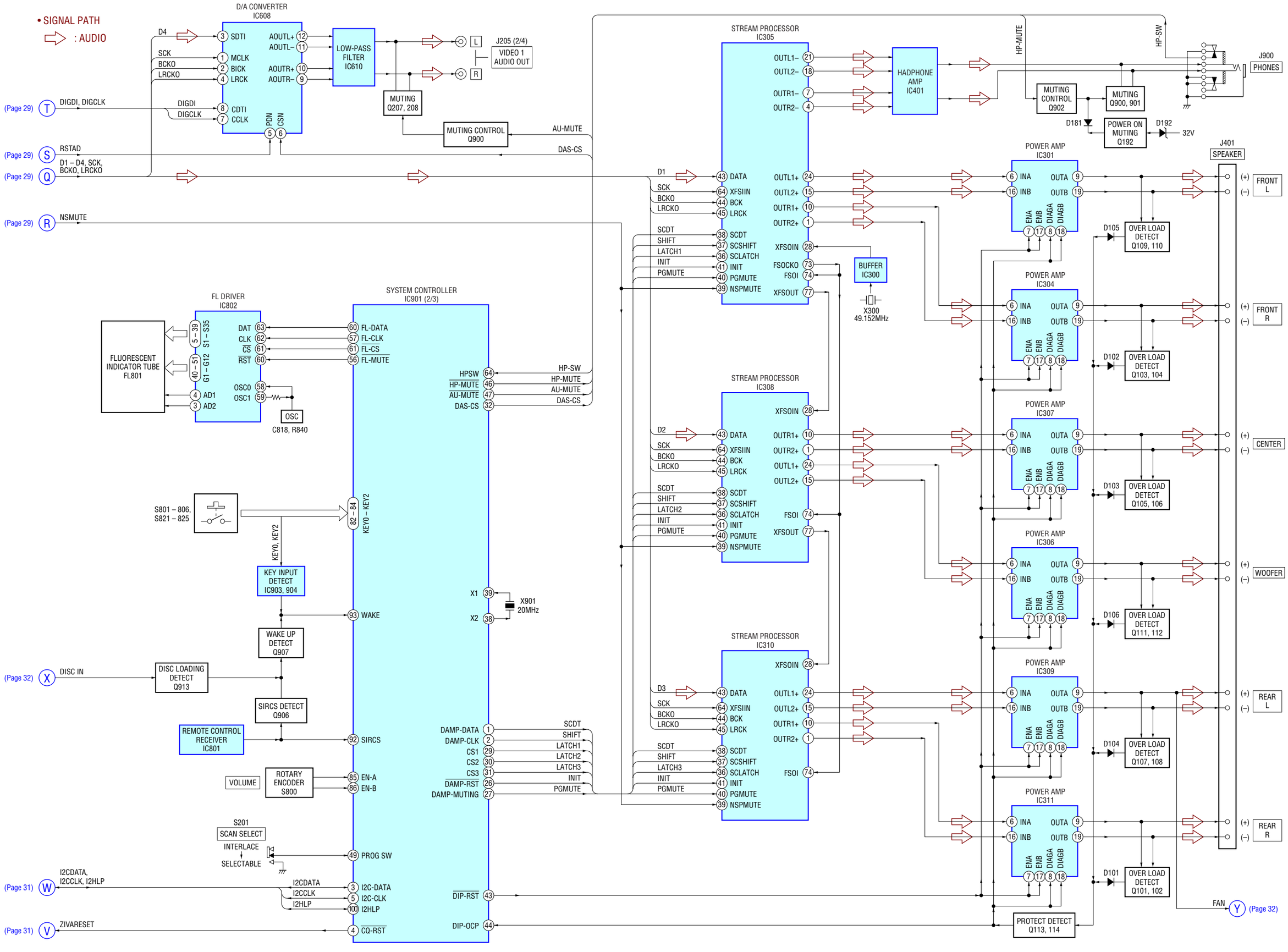
7-1. BLOCK DIAGRAM – RF SERVO Section –



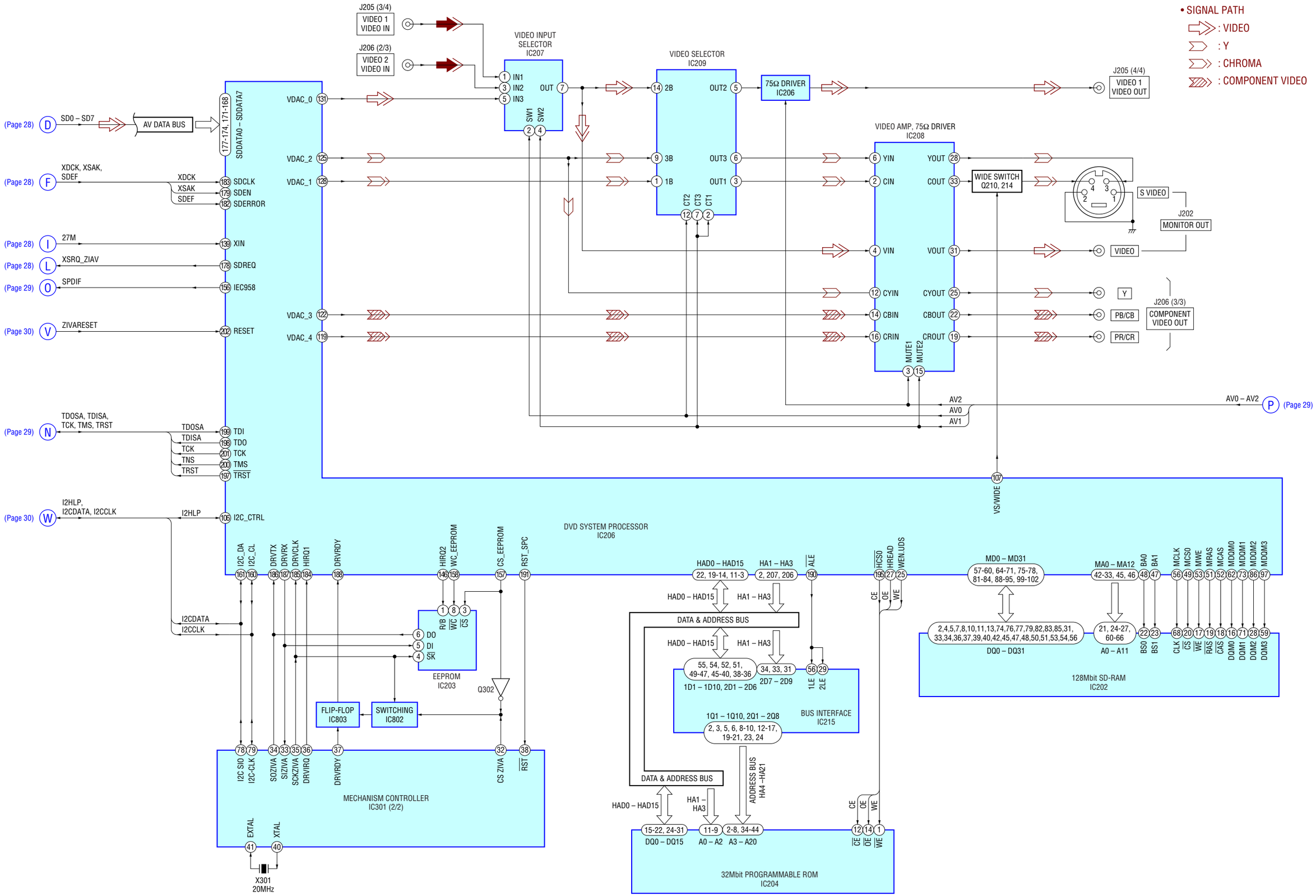
7-2. BLOCK DIAGRAM – AUDIO (DSP) Section –



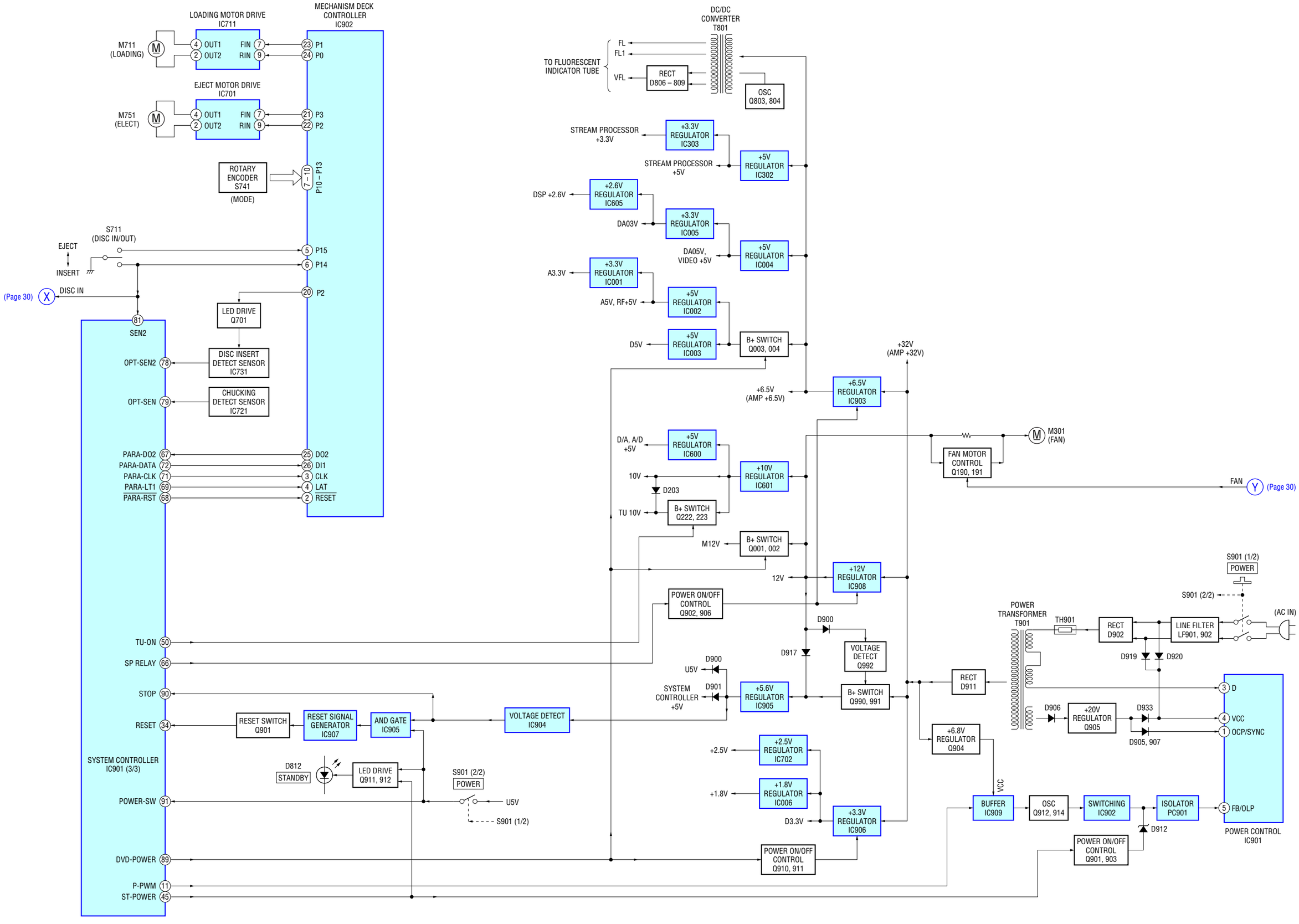
7-3. BLOCK DIAGRAM – AUDIO OUT, PANEL Section –



7-4. BLOCK DIAGRAM – VIDEO Section –



7-5. BLOCK DIAGRAM – MECHANISM DECK, POWER SUPPLY Section –



7-6. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

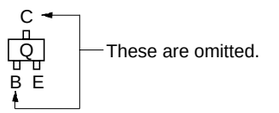
Note on Printed Wiring Board:

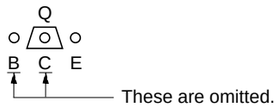
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.





Note on Schematic Diagram:

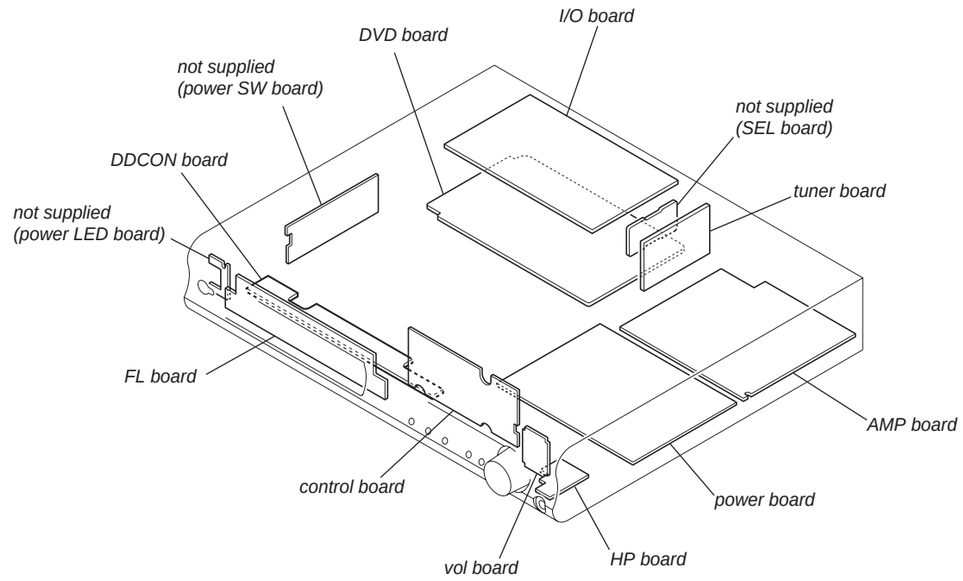
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : panel designation.

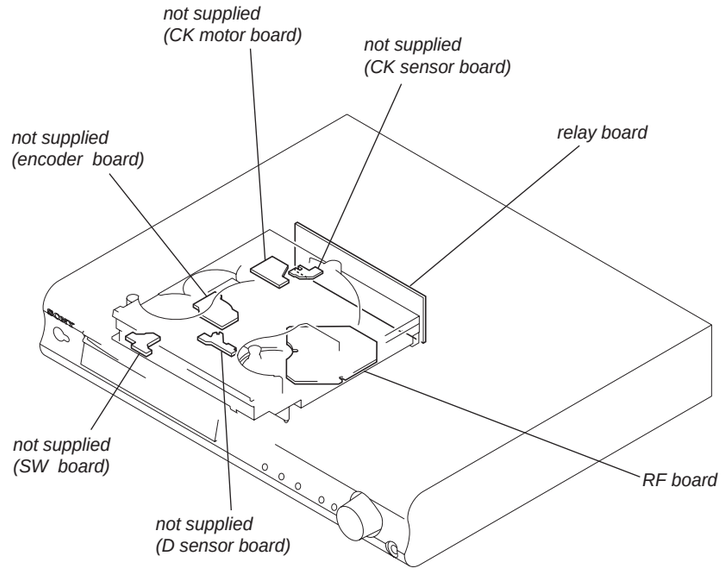
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

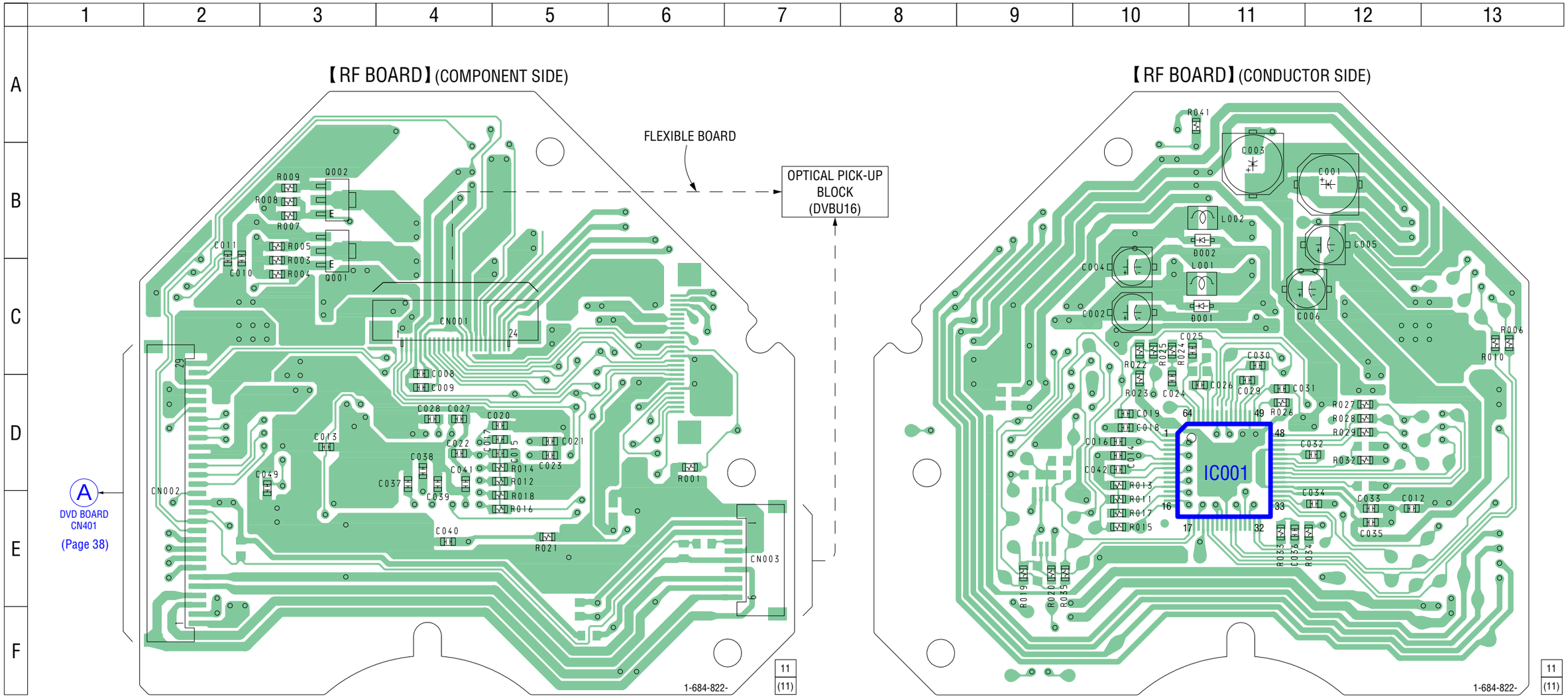
- ▬ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : DVD PLAY
  ( ) : CD PLAY
  [ ] : SACD PLAY
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : CD PLAY
  : DVD PLAY
  : SACD PLAY
  : AUX IN
  : OPTICAL DEITAL IN
  : TUNER
  : AUDIO
  : VIDEO
  : Y
  : CHROMA
  : COMPONENT VIDEO
- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CIS : Rissian model
  EA : Saudi Arabia model
  HK : Hong Kong model
  KR : Korean model
  MX : Mexican model
  MY : Malaysia model
  SP : Singapore model
  TW : Taiwan model

- **Circuit Boards Location**





7-7. PRINTED WIRING BOARDS – RF Section – • See page 33 for Circuit Boards Location.

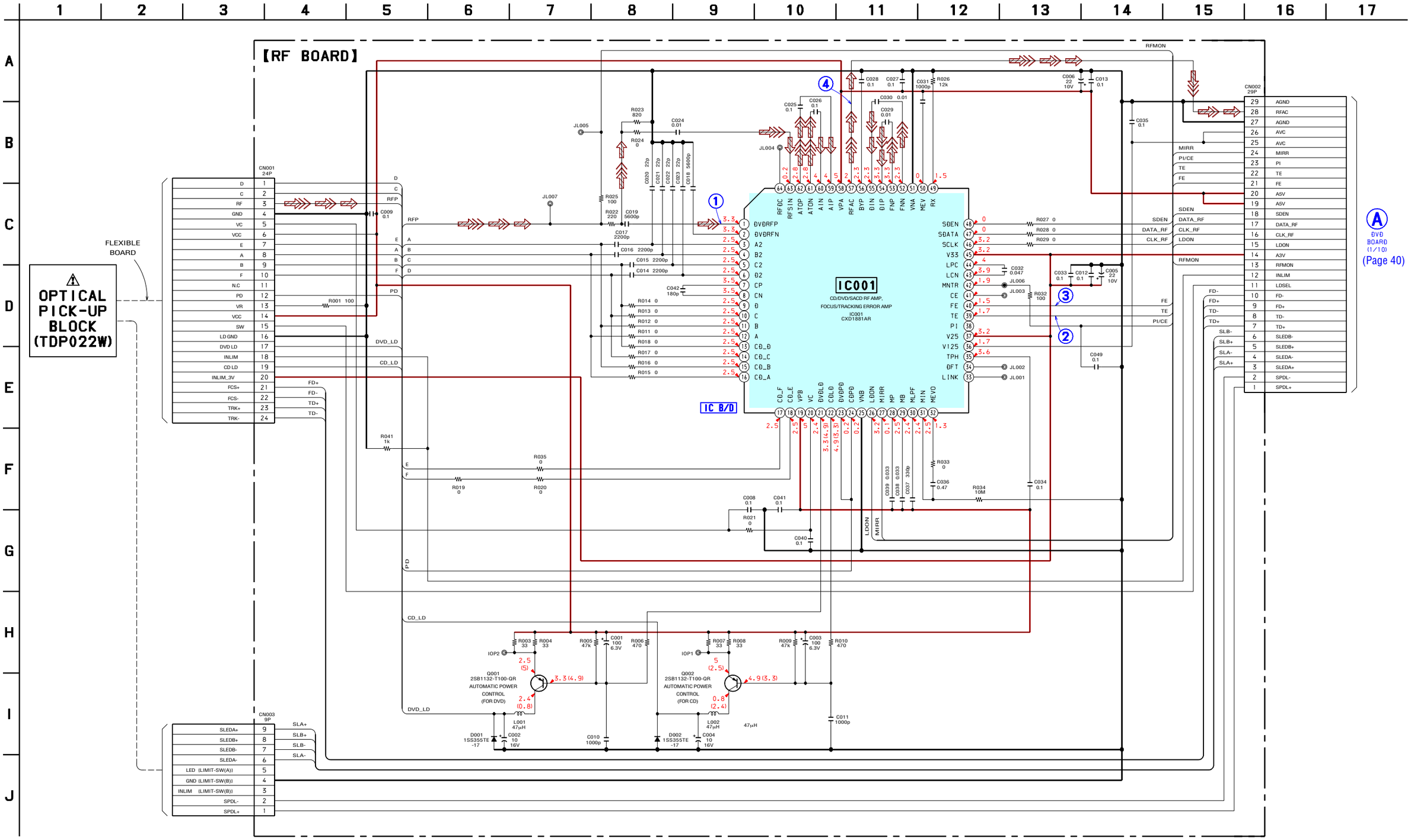


- **Semiconductor Location**

Ref. No.	Location
D001	C-11
D002	B-11
IC001	D-11
Q001	B-3
Q002	B-3

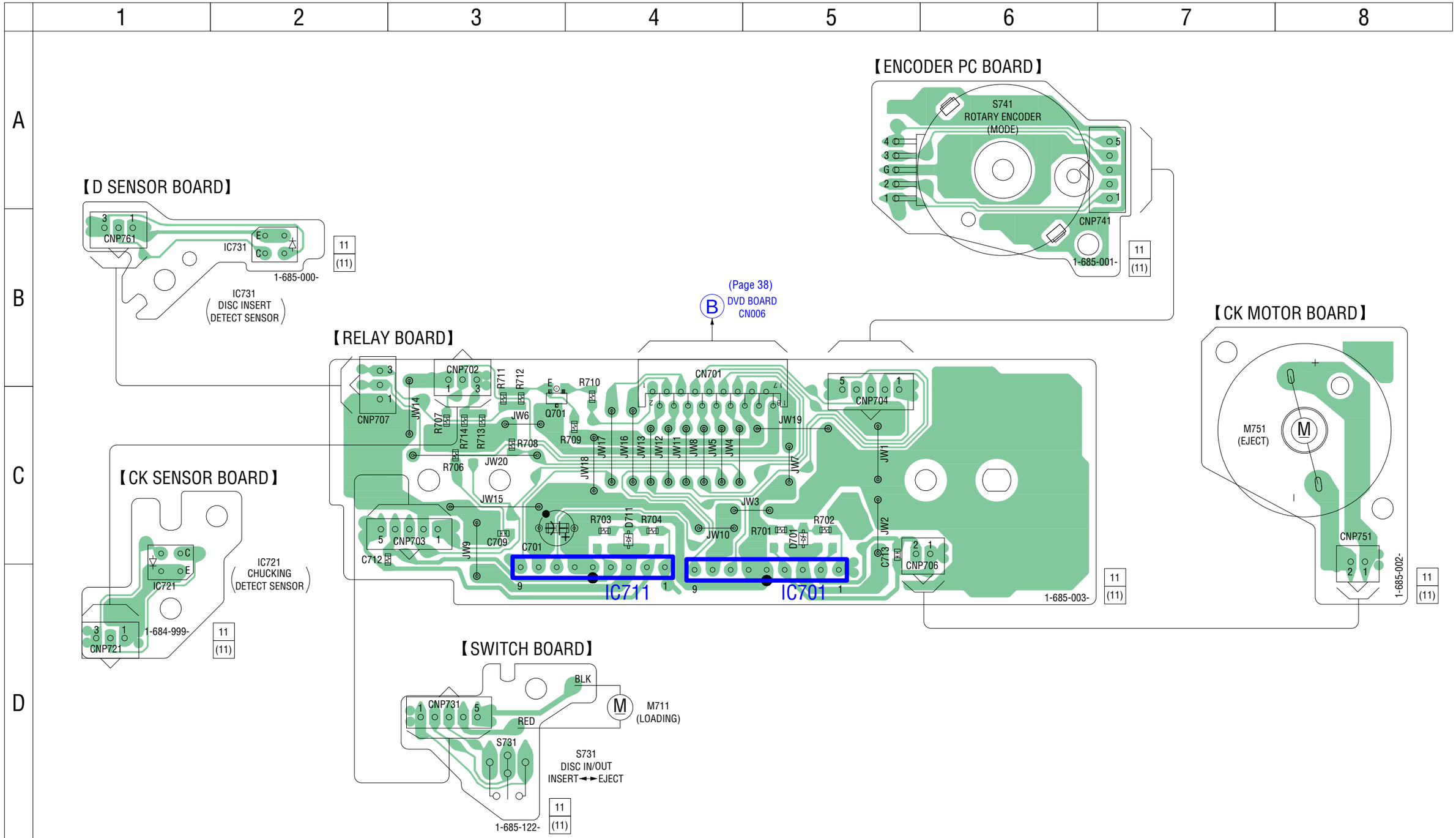
7-8. SCHEMATIC DIAGRAM – RF Section –

• See page 67 for Waveforms. • See page 72 for IC Block Diagram.



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

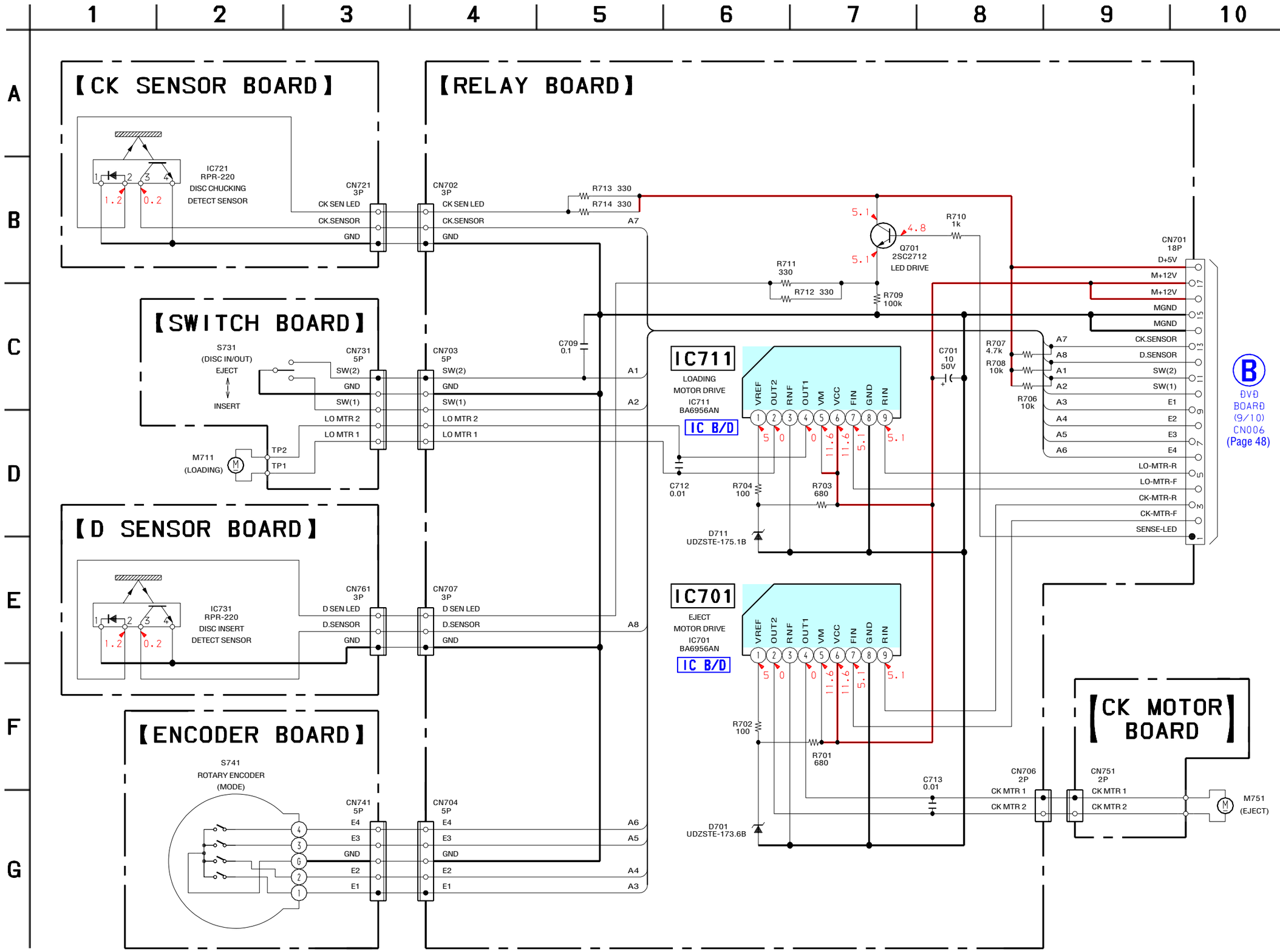
7-9. PRINTED WIRING BOARDS – MECHANISM DECK Section – • See page 33 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D701	C-5
D711	C-4
IC701	C-5
IC711	C-4
Q701	C-3

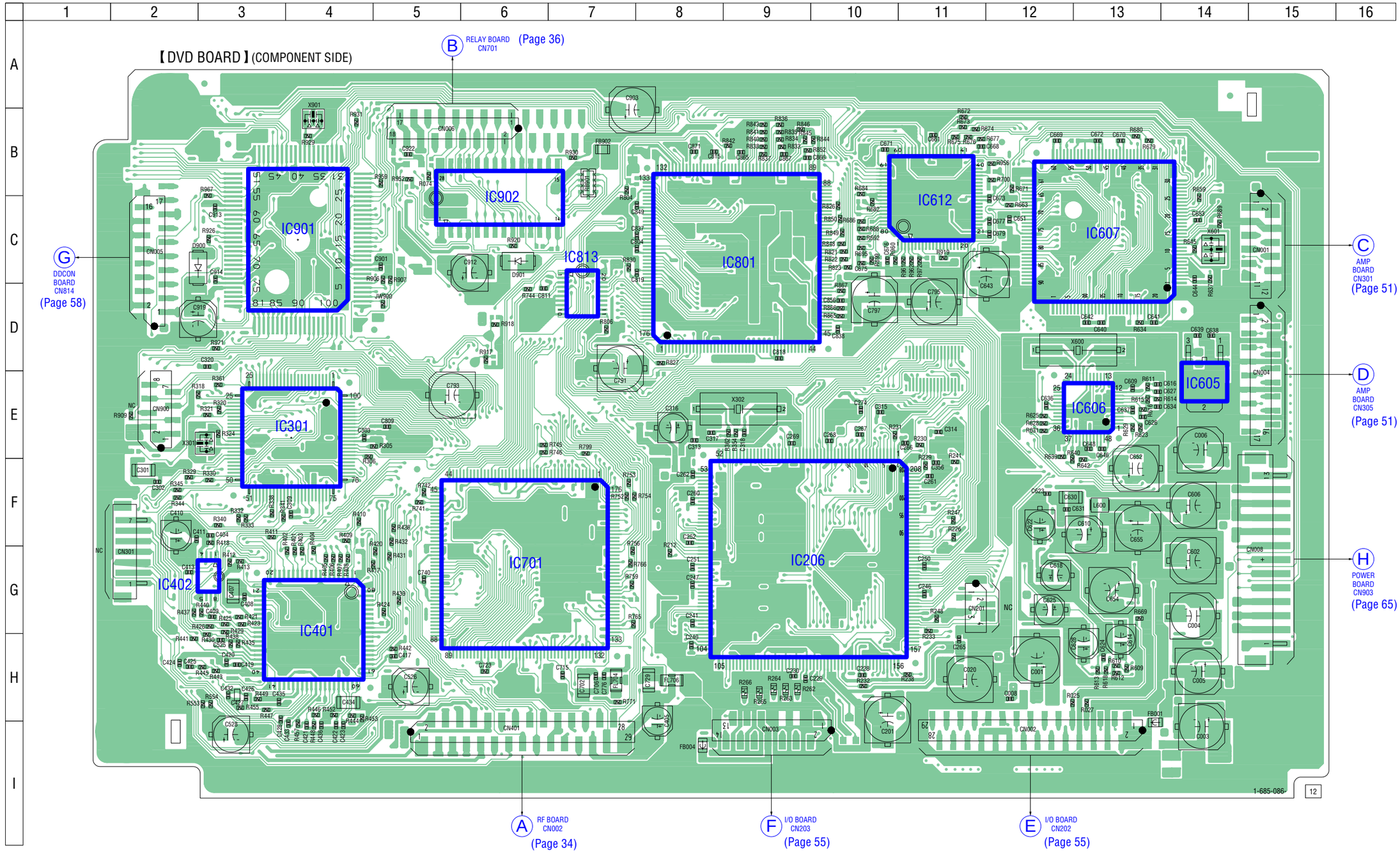
7-10. SCHEMATIC DIAGRAM – MECHANISM DECK Section – • See page 72 for IC Block Diagrams.



7-11. PRINTED WIRING BOARD – DVD Board (Component Side) – • See page 33 for Circuit Boards Location.

• **Semiconductor Location**

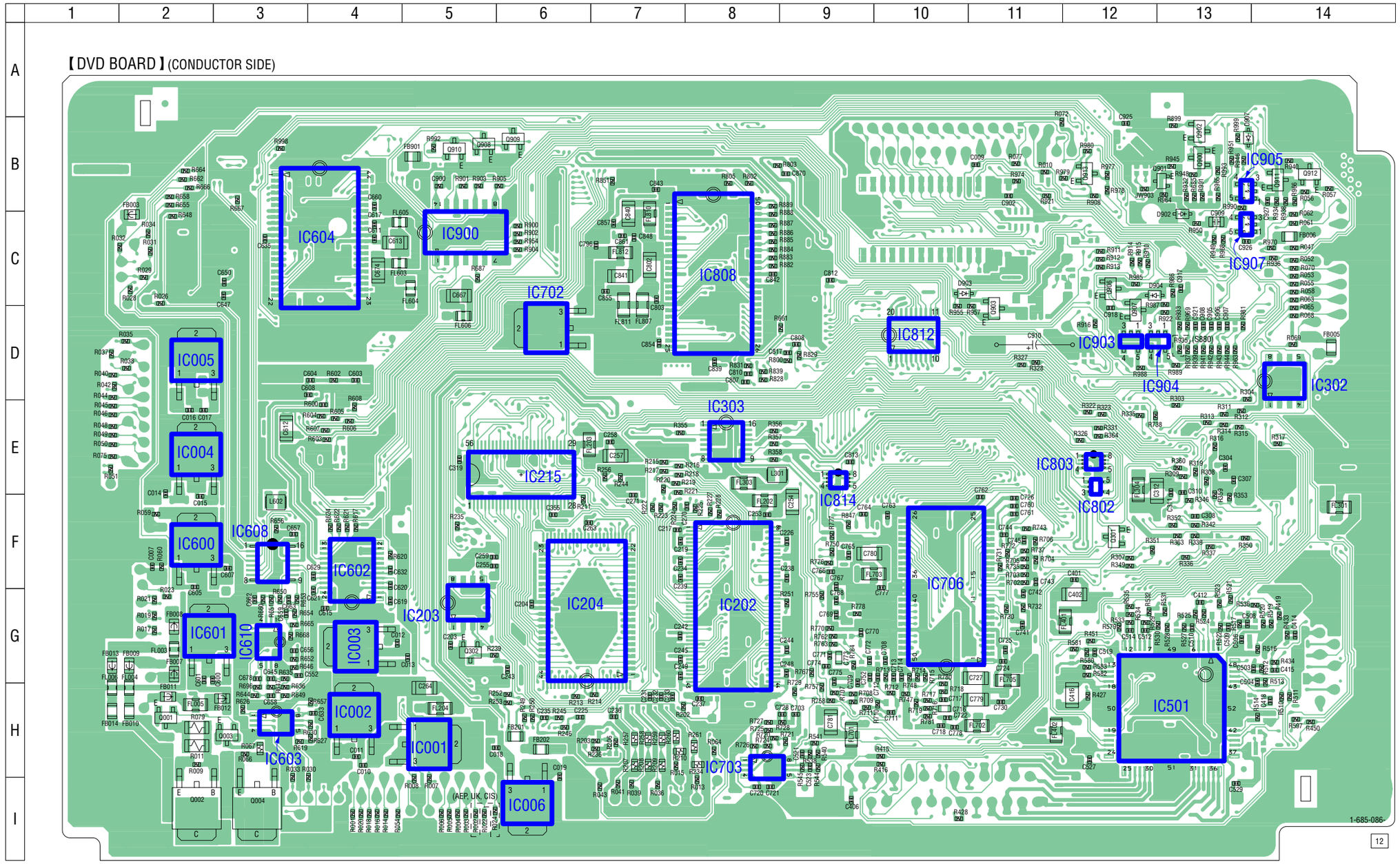
Ref. No.	Location
D900	C-2
D901	C-6
IC206	G-9
IC301	E-4
IC401	G-4
IC402	G-3
IC605	E-14
IC606	E-13
IC607	C-13
IC612	C-11
IC701	G-6
IC801	C-9
IC813	D-7
IC901	C-4
IC902	C-6



7-12. PRINTED WIRING BOARD – DVD Board (Conductor Side) –

• See page 33 for Circuit Boards Location.

【DVD BOARD】(CONDUCTOR SIDE)

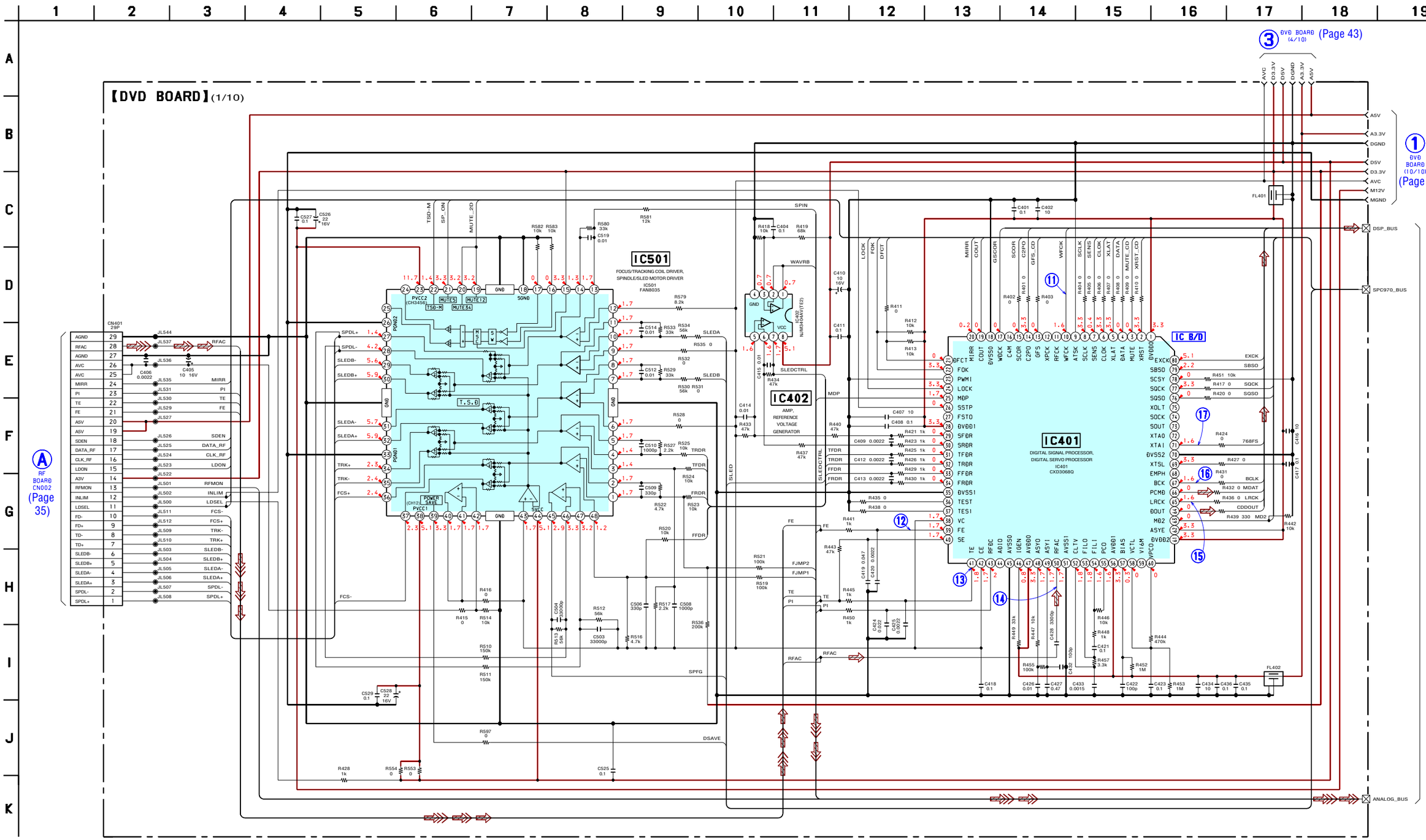


- **Semiconductor Location**

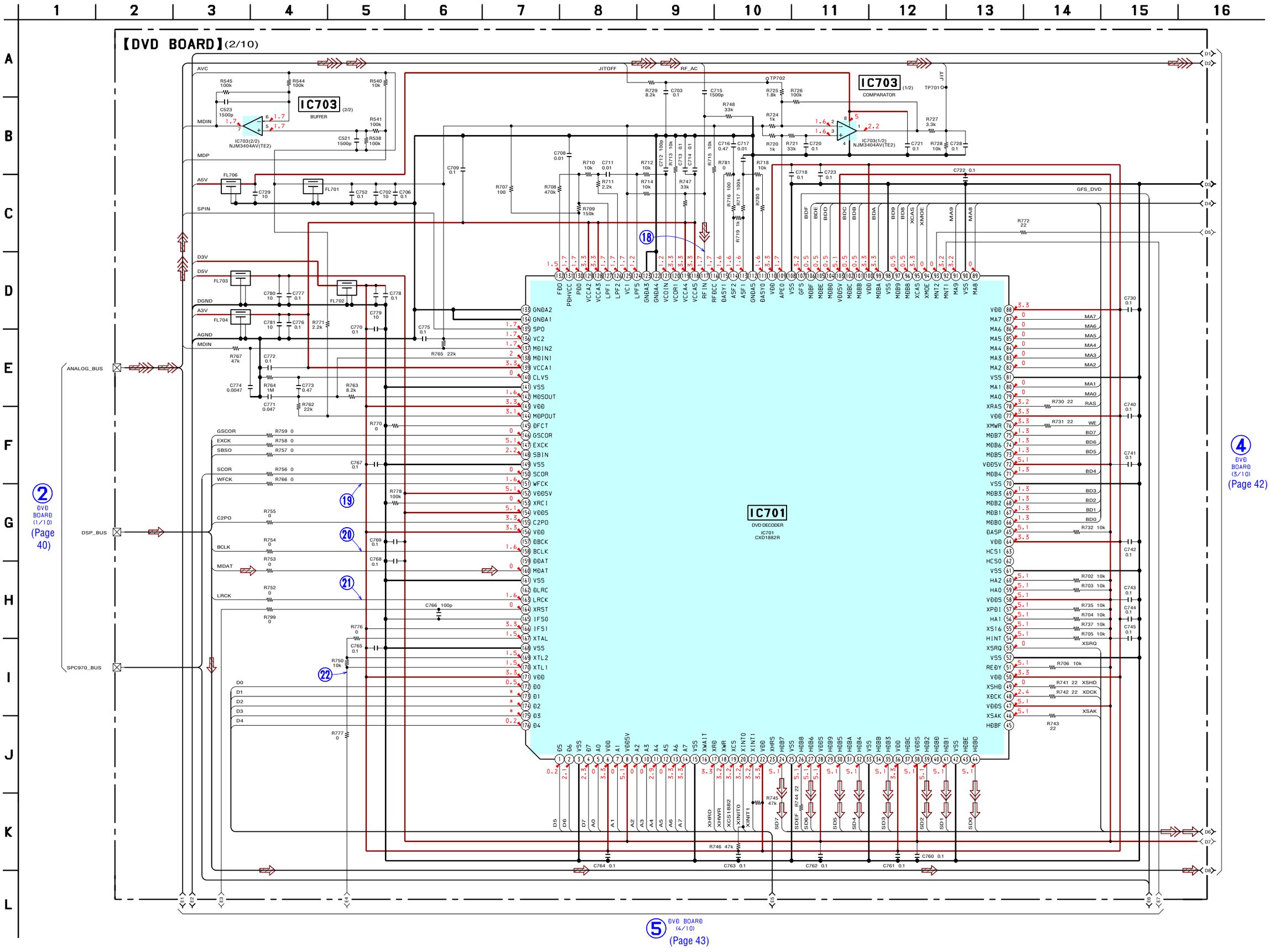
Ref. No.	Location
D902	C-13
D903	C-10
D904	C-12
D907	B-13
IC001	H-5
IC002	H-4
IC003	G-4
IC004	E-2
IC005	D-2
IC006	I-6
IC202	G-8
IC203	G-5
IC204	G-6
IC215	E-6
IC302	D-14
IC303	E-8
IC501	H-13
IC600	F-2
IC601	G-2
IC602	F-4
IC603	H-3
IC604	C-4
IC608	F-3
IC610	G-3
IC702	D-6
IC703	H-8
IC706	F-10
IC802	E-12
IC803	E-12
IC808	C-8
IC812	D-10
IC814	E-9
IC900	C-5
IC903	D-12
IC904	D-12
IC905	B-13
IC907	C-13
Q001	H-2
Q002	I-2
Q003	H-3
Q004	I-3
Q301	F-12
Q302	G-5
Q900	B-13
Q901	B-13
Q902	B-13
Q903	D-11
Q906	C-12
Q907	D-12
Q908	B-5
Q909	B-6
Q910	B-5
Q911	B-14
Q912	B-14
Q913	B-12

7-13. SCHEMATIC DIAGRAM – DVD Board (1/10) –

• See page 67 for Waveforms. • See page 72 for IC Block Diagram.

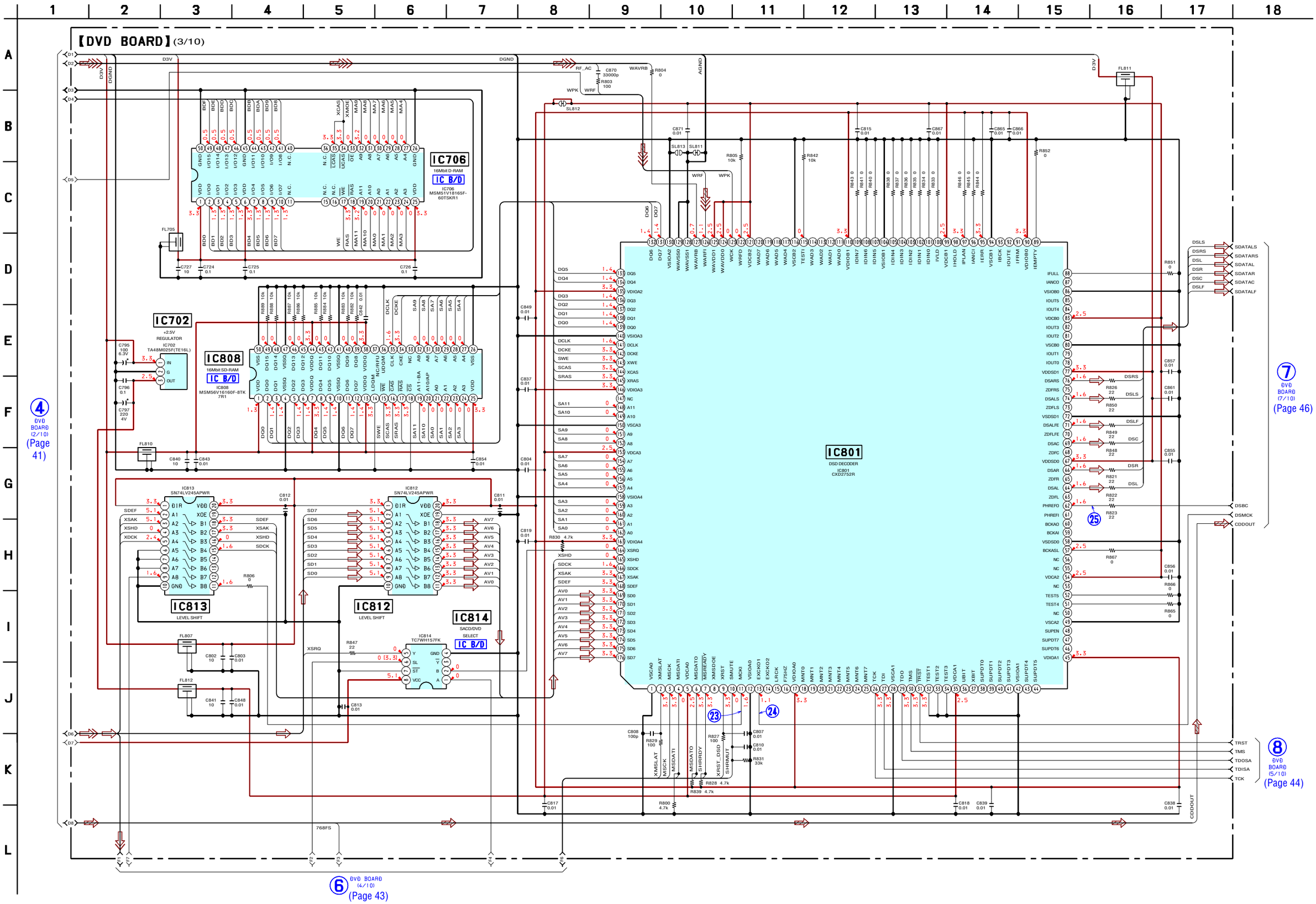


7-14. SCHEMATIC DIAGRAM – DVD Board (2/10) – • See page 67 for Waveforms.

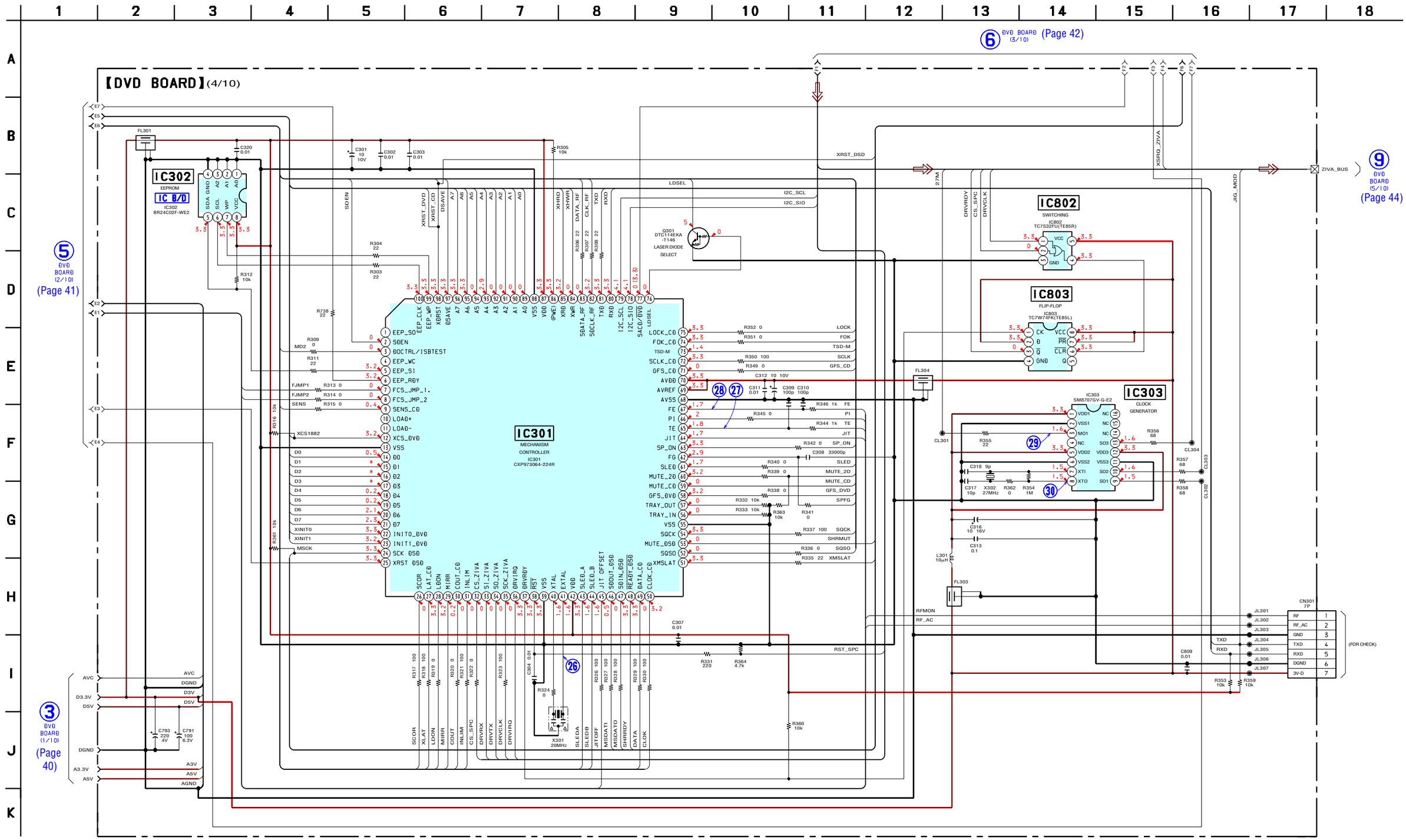


7-15. SCHEMATIC DIAGRAM – DVD Board (3/10) –

• See page 67 for Waveforms. • See page 72 for IC Block Diagrams.

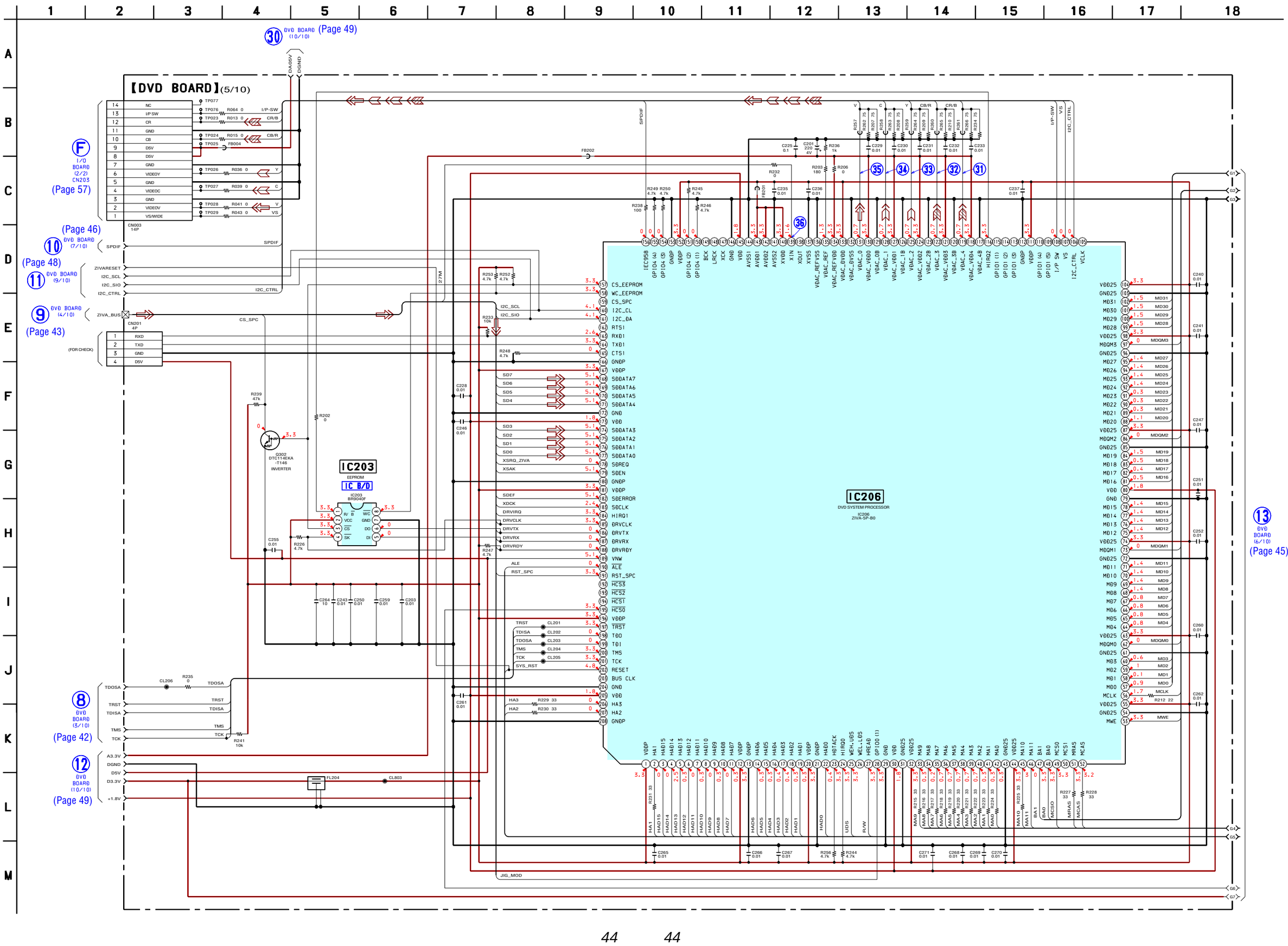


7-16. SCHEMATIC DIAGRAM – DVD Board (4/10) – • See page 67 for Waveforms. • See page 72 for IC Block Diagrams.

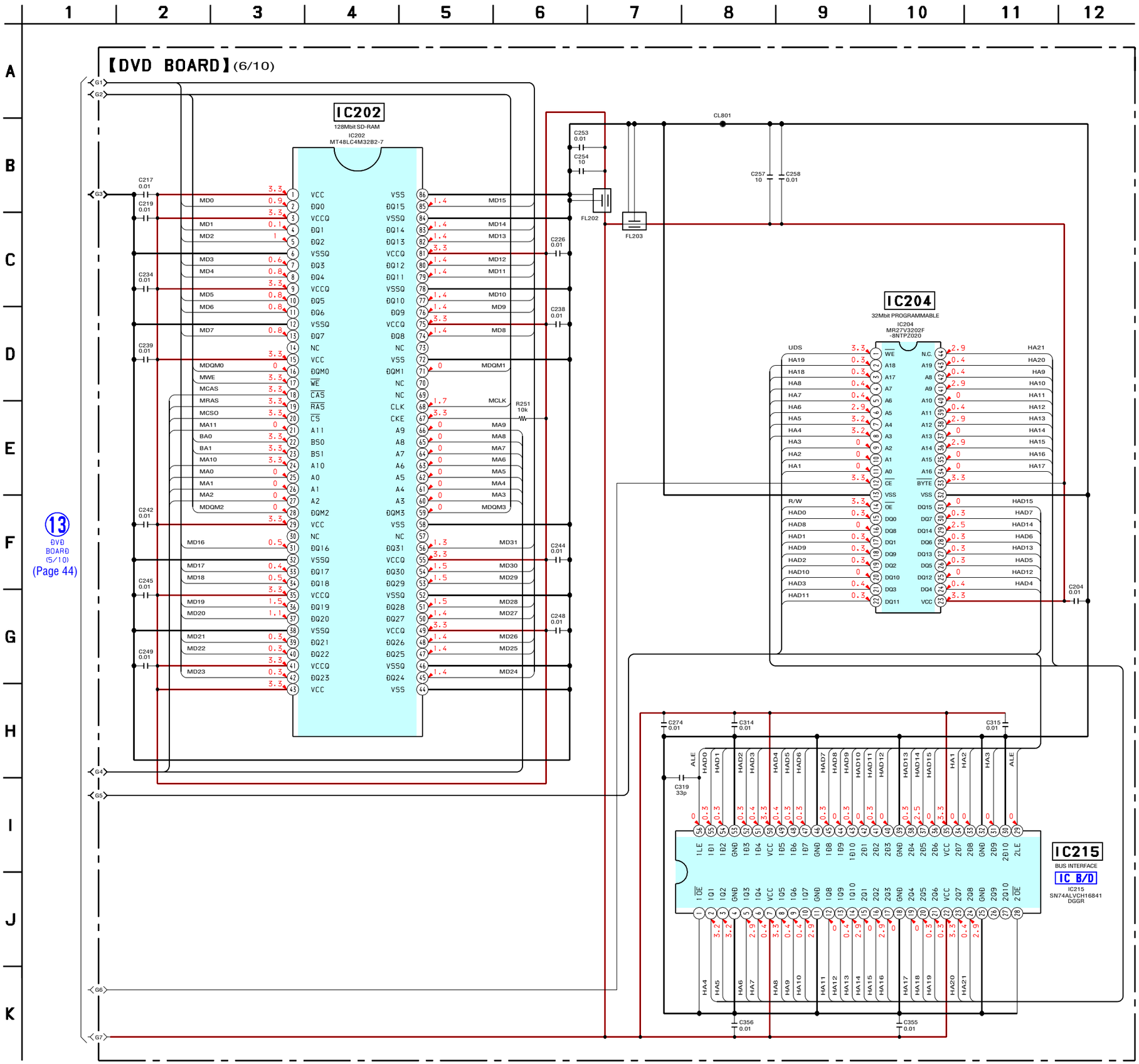


7-17. SCHEMATIC DIAGRAM – DVD Board (5/10) –

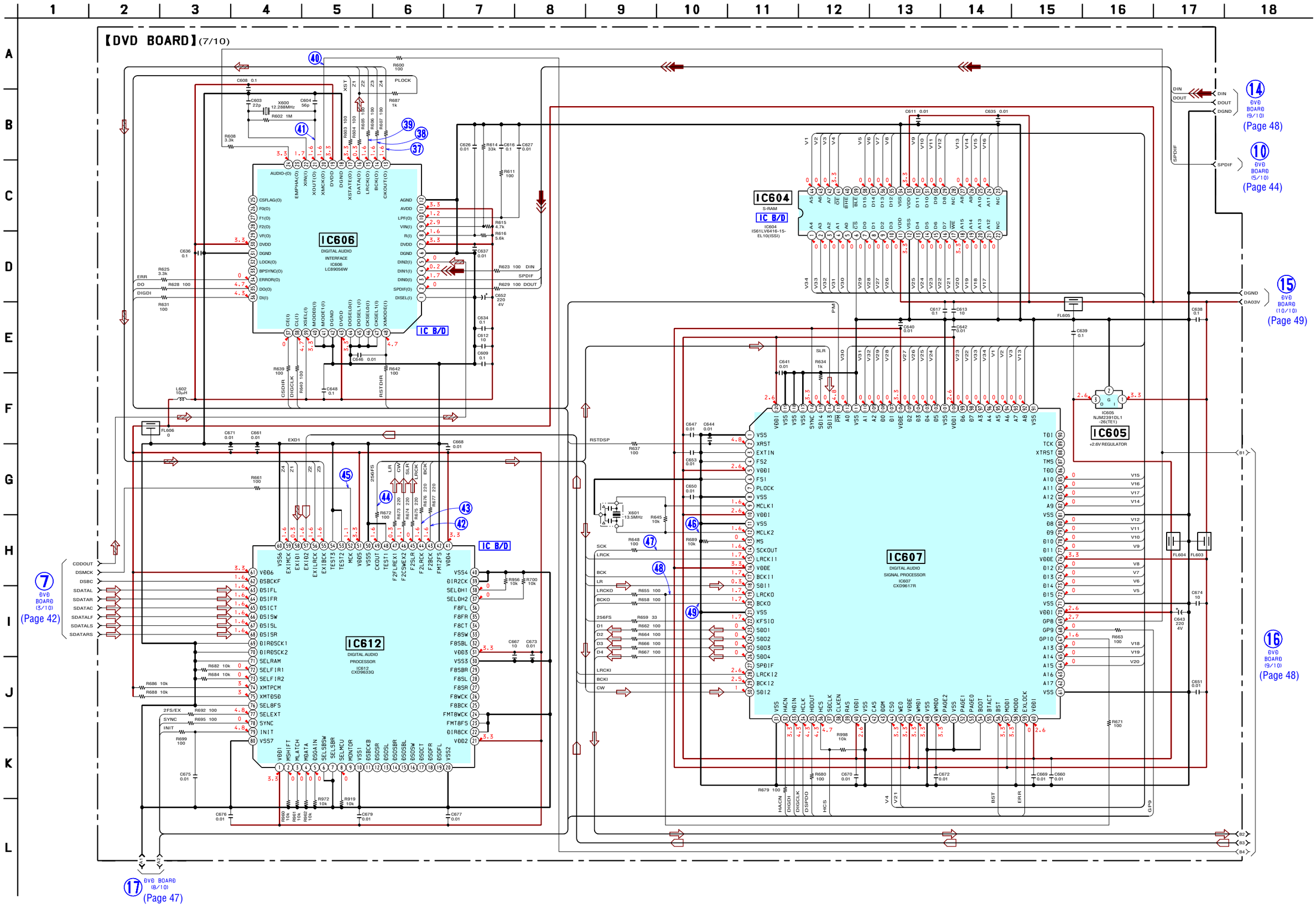
• See page 67 for Waveforms. • See page 72 for IC Block Diagram.



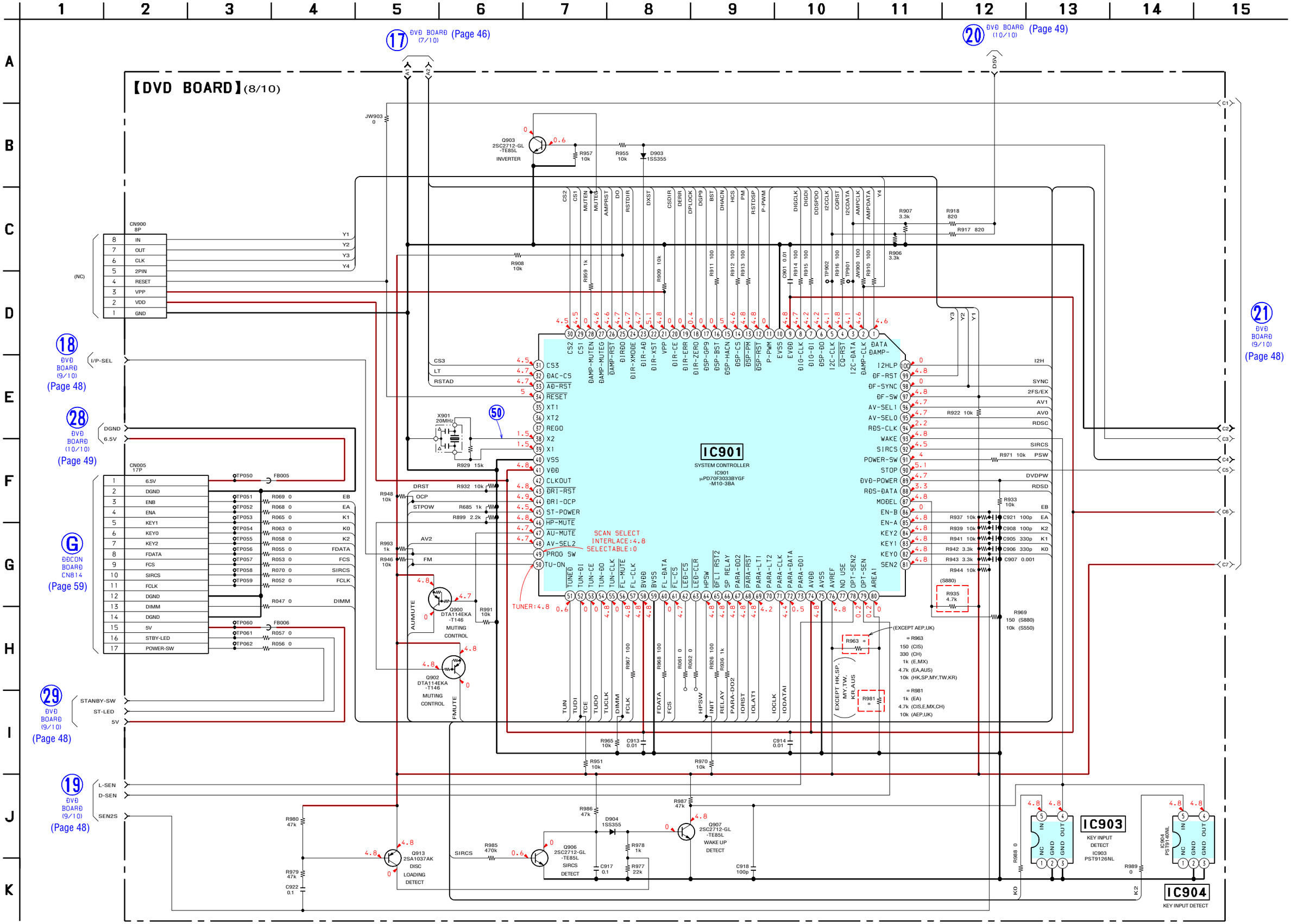
7-18. SCHEMATIC DIAGRAM – DVD Board (6/10) – • See page 72 for IC Block Diagram.



7-19. SCHEMATIC DIAGRAM – DVD Board (7/10) – • See page 67 for Waveforms. • See page 72 for IC Block Diagrams.

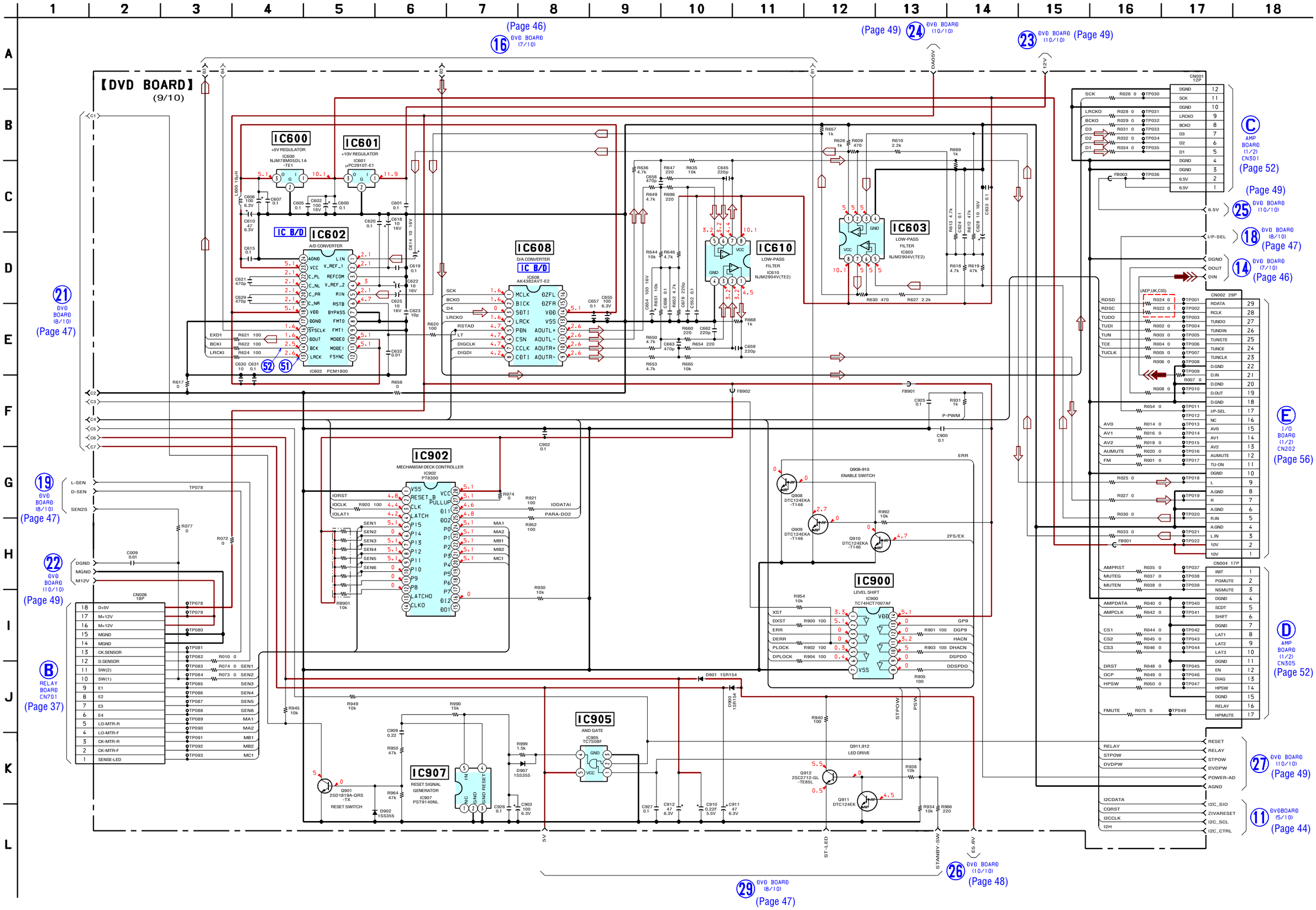


7-20. SCHEMATIC DIAGRAM – DVD Board (8/10) – • See page 67 for Waveform.

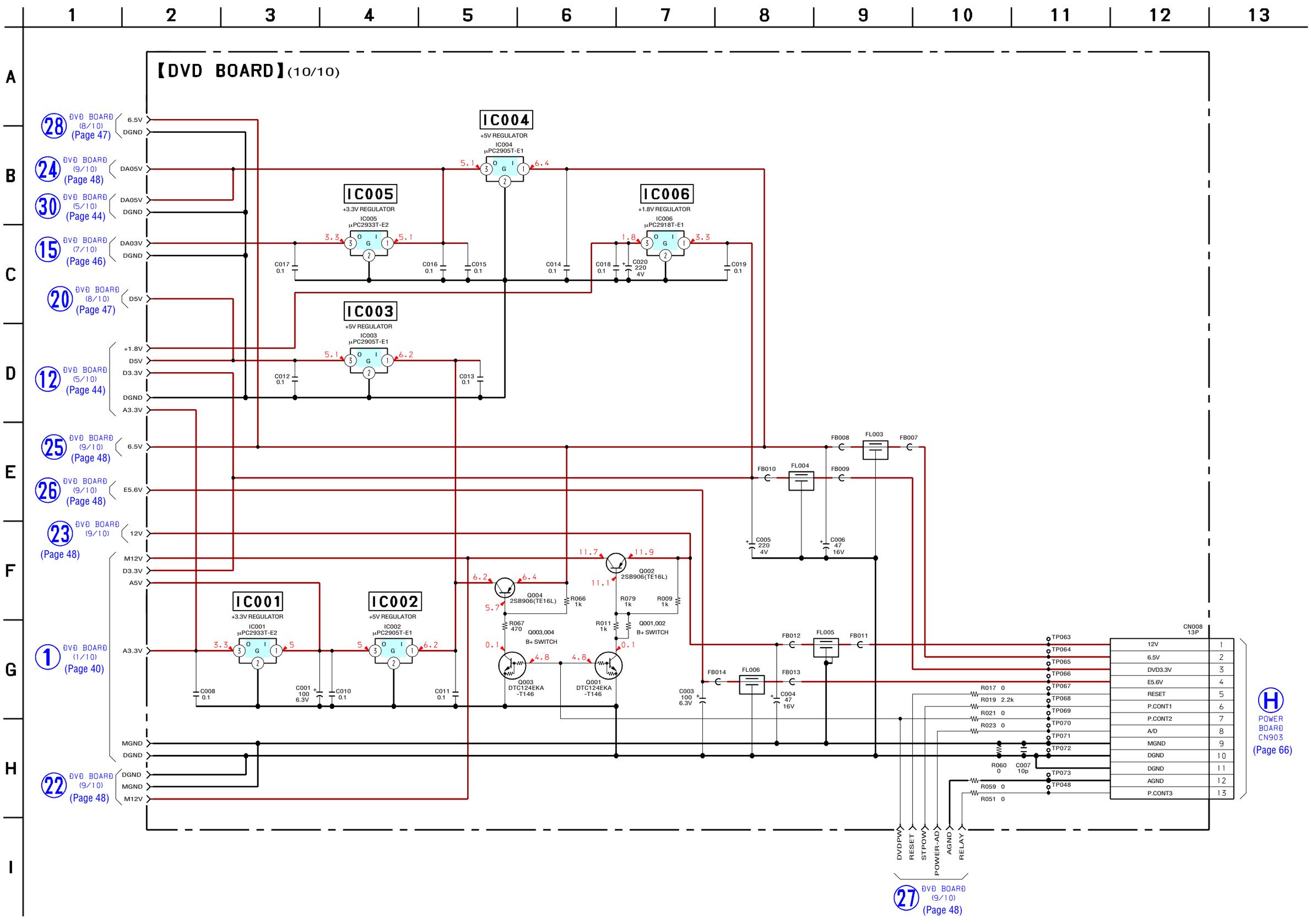


7-21. SCHEMATIC DIAGRAM – DVD Board (9/10) –

• See page 67 for Waveforms. • See page 72 for IC Block Diagrams.



7-22. SCHEMATIC DIAGRAM – DVD Board (10/10) –

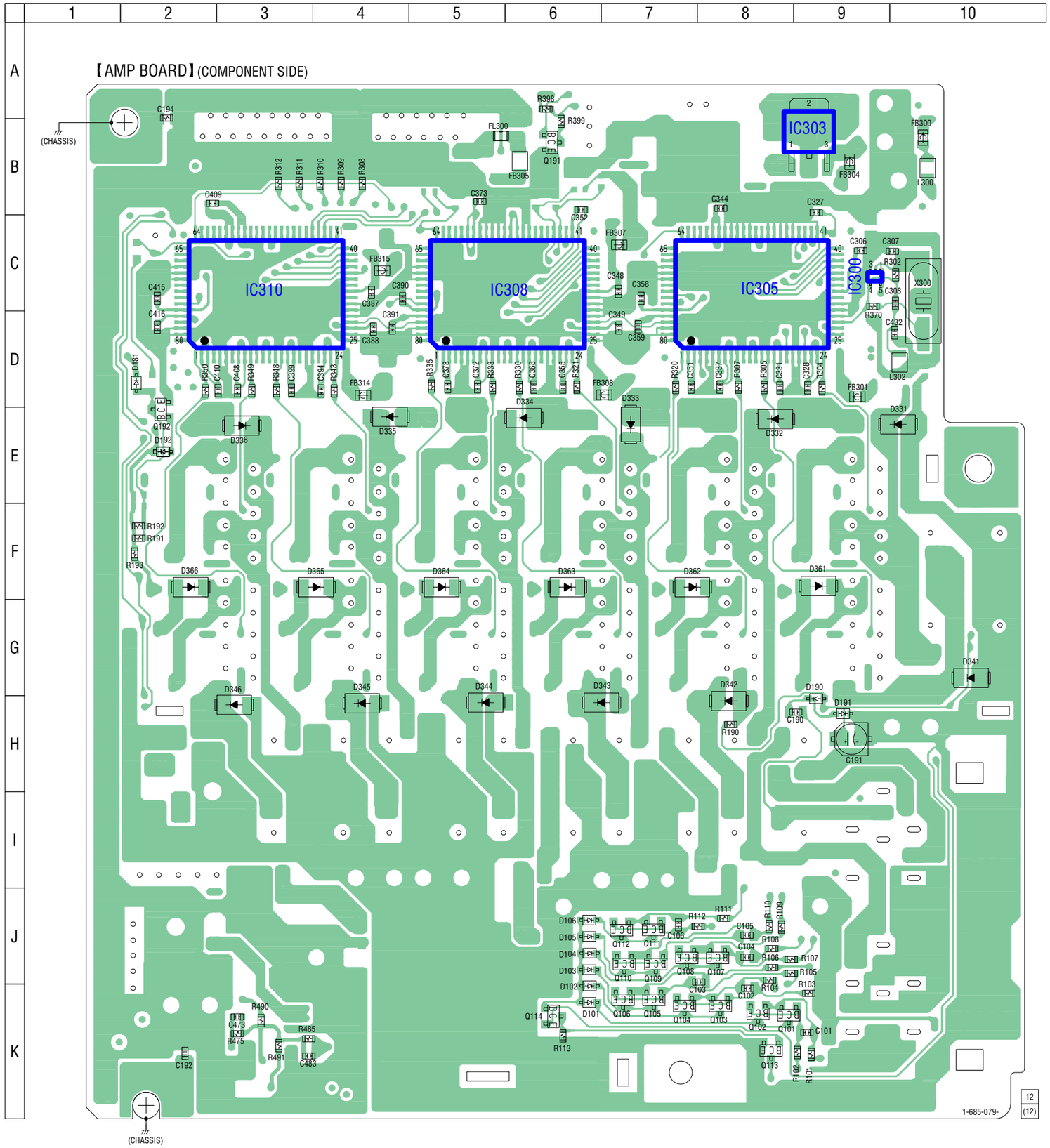

【DVD BOARD】(10/10)
28 DVD BOARD (8/10) (Page 47) 6.5V DGND
24 DVD BOARD (9/10) (Page 48) DA05V
30 DVD BOARD (5/10) (Page 44) DA05V DGND
15 DVD BOARD (7/10) (Page 46) DA03V DGND
20 DVD BOARD (8/10) (Page 47) D5V
12 DVD BOARD (5/10) (Page 44) +1.8V D5V D3.3V DGND A3.3V
25 DVD BOARD (9/10) (Page 48) 6.5V
26 DVD BOARD (9/10) (Page 48) E5.6V
23 DVD BOARD (9/10) (Page 48) 12V M12V D3.3V A5V
1 DVD BOARD (1/10) (Page 40) A3.3V
22 DVD BOARD (9/10) (Page 48) DGND MGND M12V
IC004 +5V REGULATOR IC004 µPC2905T-E1
IC005 +3.3V REGULATOR IC005 µPC2933T-E2
IC006 +1.8V REGULATOR IC006 µPC2918T-E1
IC003 +5V REGULATOR IC003 µPC2905T-E1
IC001 +3.3V REGULATOR IC001 µPC2933T-E2
IC002 +5V REGULATOR IC002 µPC2905T-E1
Q004 2SB906(TE16L)
Q002 2SB906(TE16L)
Q003 DTC124EKA -T146
Q001 DTC124EKA -T146
Q003,004 B+ SWITCH
Q001,002 B+ SWITCH
FB008 FL003 FB007
FB010 FL004 FB009
FB012 FL005 FB011
FB014 FL006 FB013
CN008 13P
12V 6.5V DVD3.3V E5.6V RESET P.CONT1 P.CONT2 A/D MGND DGND DGND AGND P.CONT3
H POWER BOARD CN903 (Page 66)
DVDPW RESET STPOW POWER-AD AGND RELAY
27 DVD BOARD (9/10) (Page 48)

7-23. PRINTED WIRING BOARD – AMP Section (1/2) –

• See page 33 for Circuit Boards Location.

• **Semiconductor Location**

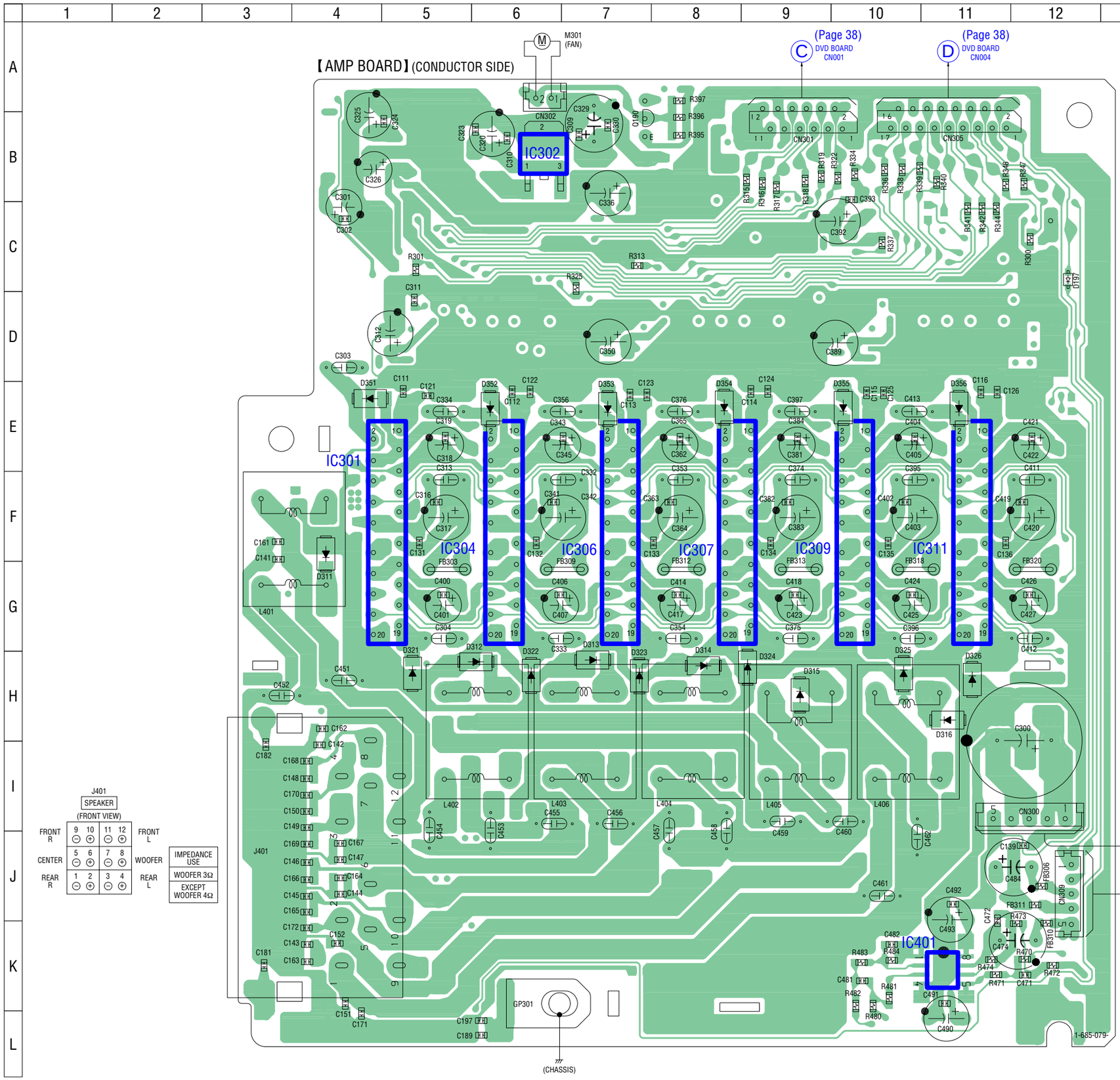
Ref. No.	Location
D101	K-6
D102	K-6
D103	J-6
D104	J-6
D105	J-6
D106	J-6
D181	D-2
D190	H-9
D191	H-9
D192	E-2
D331	E-10
D332	E-8
D333	E-7
D334	E-6
D335	E-4
D336	E-3
D341	G-10
D342	H-8
D343	H-7
D344	H-5
D345	H-4
D346	H-3
D361	F-9
D362	F-7
D363	F-6
D364	F-5
D365	F-4
D366	F-2
IC300	C-9
IC303	B-9
IC305	C-8
IC308	C-5
IC310	C-3
Q101	K-8
Q102	K-8
Q103	K-8
Q104	K-7
Q105	K-7
Q106	K-7
Q107	J-8
Q108	J-7
Q109	J-7
Q110	J-7
Q111	J-7
Q112	J-7
Q113	K-8
Q114	K-6
Q191	B-6
Q192	E-2



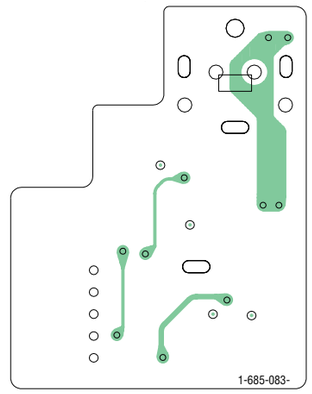
7-24. PRINTED WIRING BOARDS – AMP Section (2/2) –

• See page 33 for Circuit Boards Location.

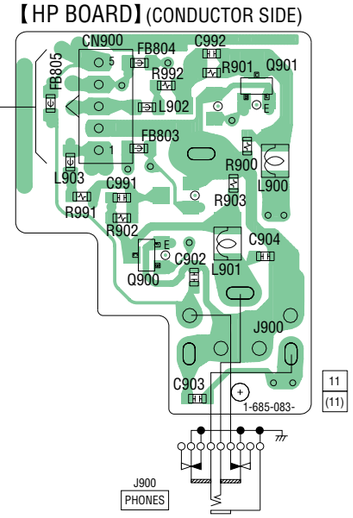
【AMP BOARD】(CONDUCTOR SIDE)



【HP BOARD】(COMPONENT SIDE)



【HP BOARD】(CONDUCTOR SIDE)

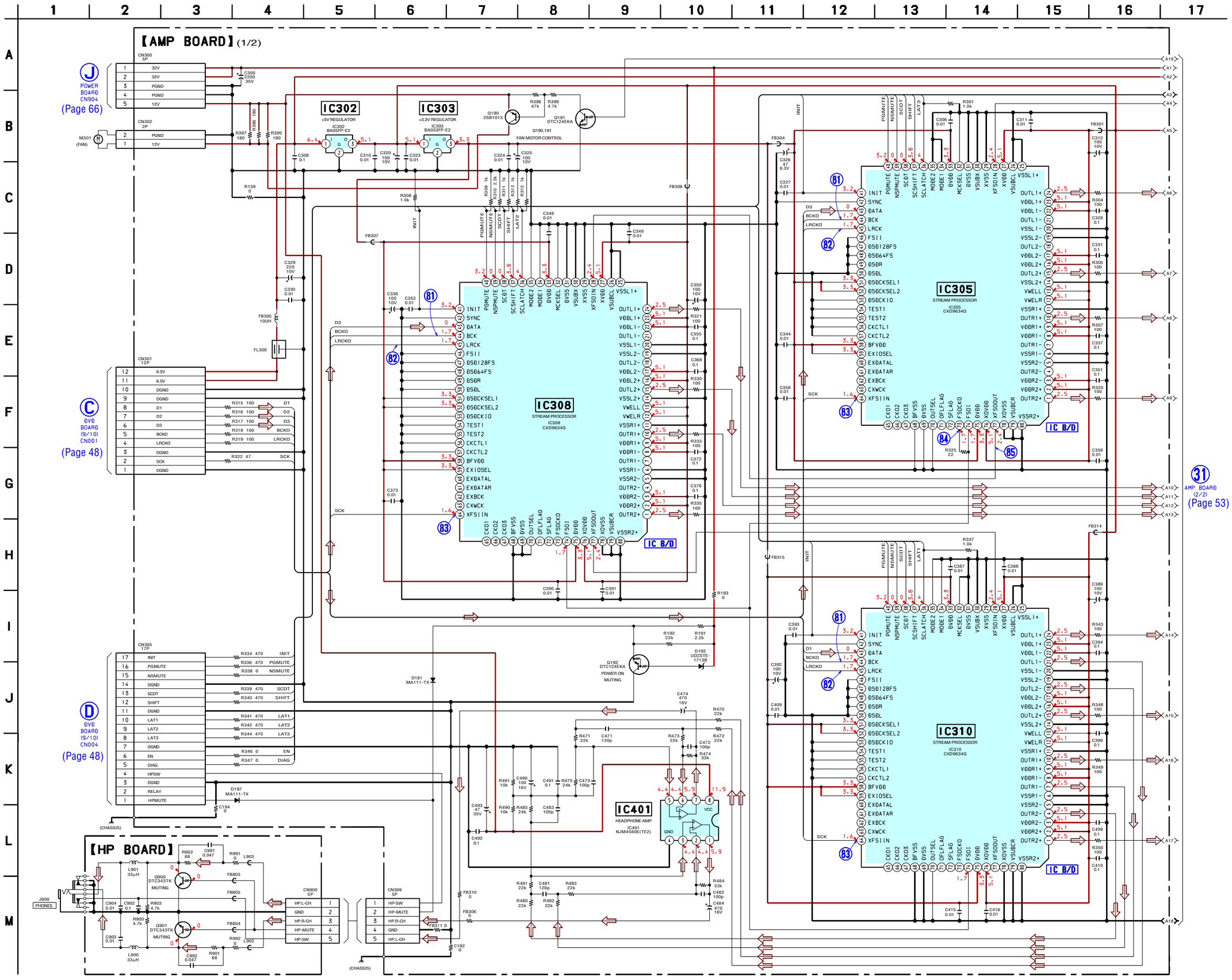


- **Semiconductor Location**

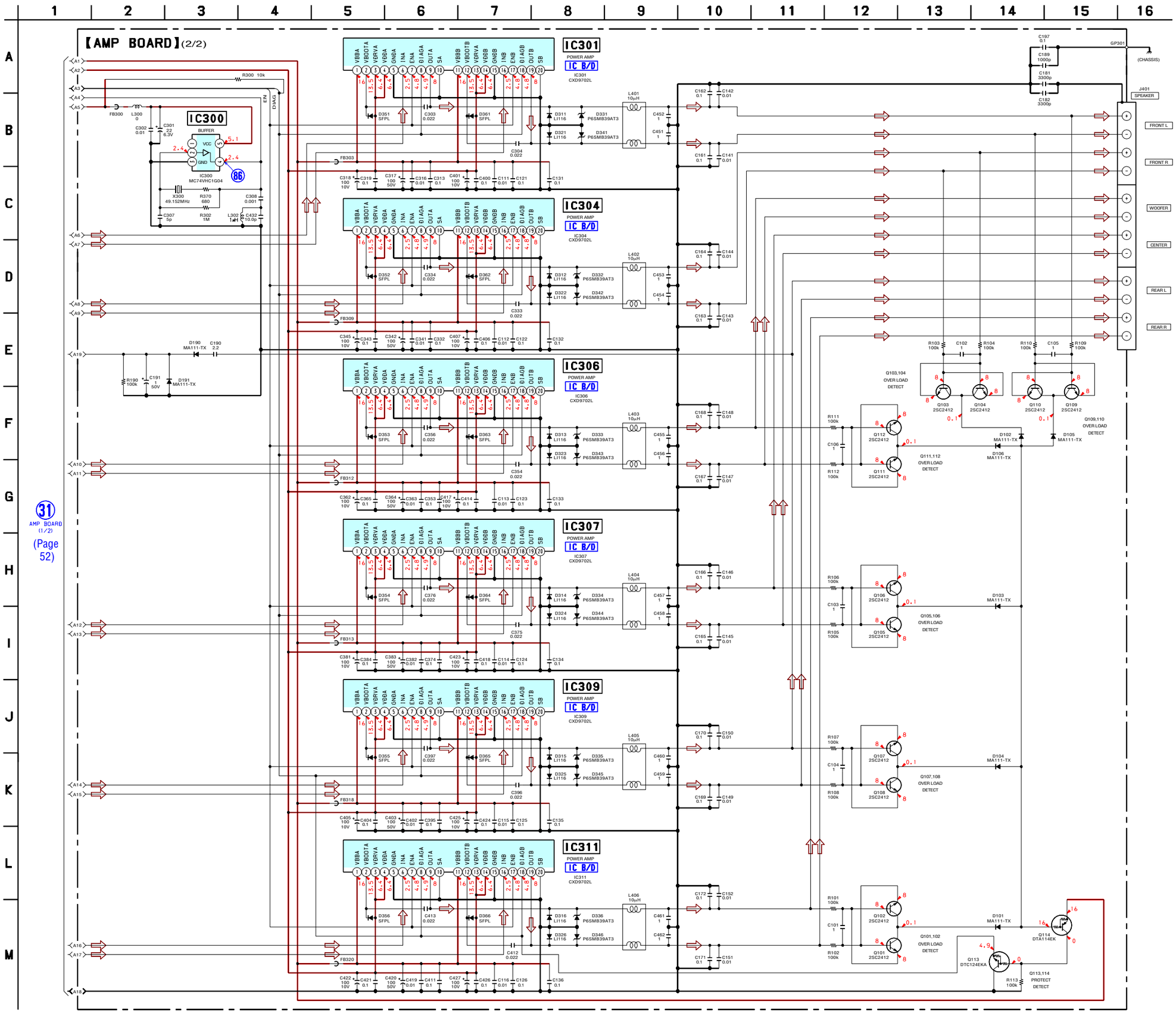
Ref. No.	Location
D197	C-12
D311	F-4
D312	H-6
D313	H-7
D314	H-8
D315	H-9
D316	H-11
D321	H-5
D322	H-6
D323	H-7
D324	H-9
D325	H-10
D326	H-11
D351	E-4
D352	E-6
D353	E-7
D354	E-8
D355	E-10
D356	E-11
IC301	E-4
IC302	B-6
IC304	F-6
IC306	F-7
IC307	F-8
IC309	F-10
IC311	F-11
IC401	K-11
Q190	B-7
Q900	J-15
Q901	I-15

7-25. SCHEMATIC DIAGRAM – AMP Section (1/2) –

• See page 67 for Waveforms. • See page 72 for IC Block Diagrams.



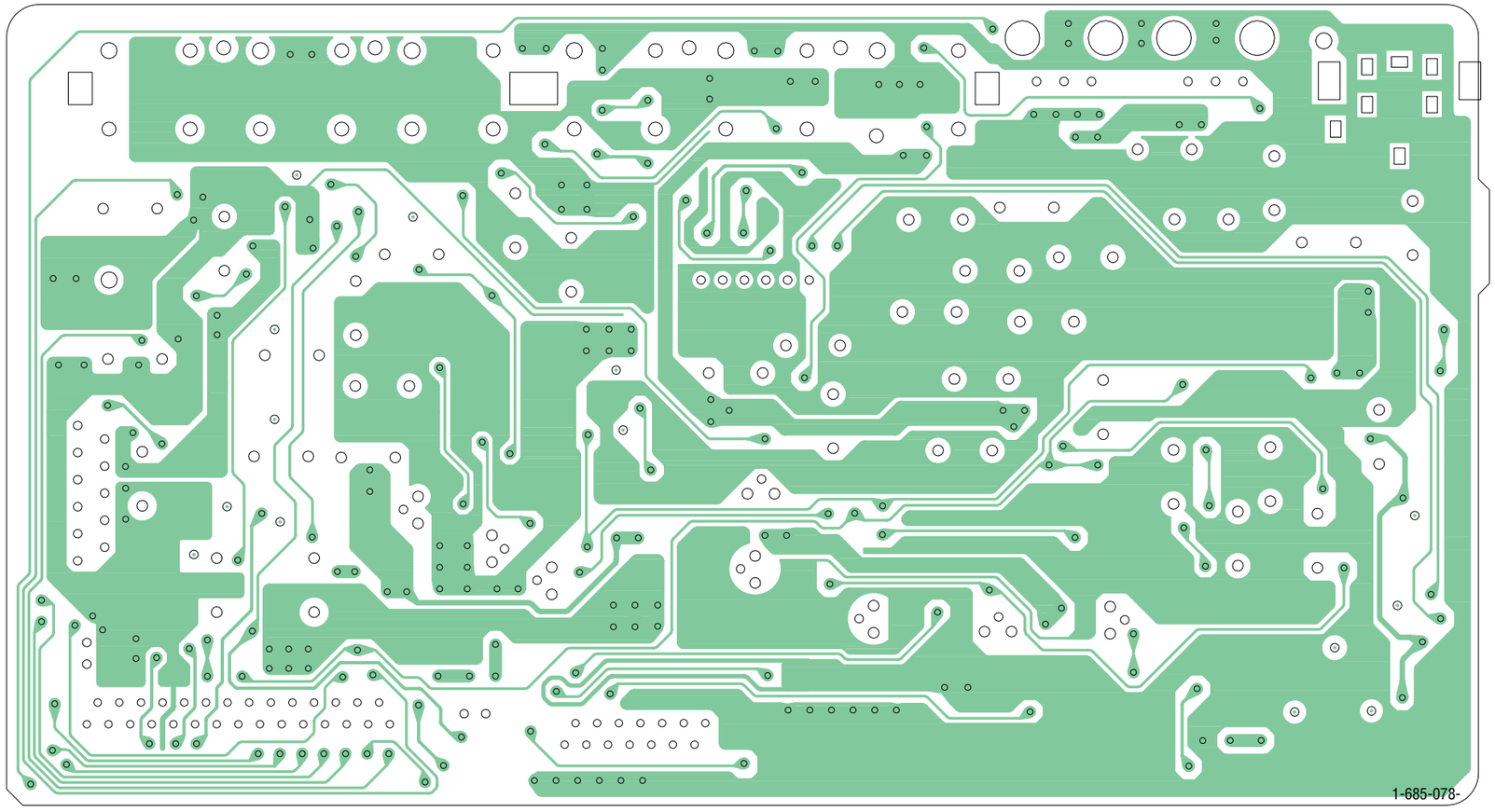
7-26. SCHEMATIC DIAGRAM – AMP Section (2/2) – • See page 67 for Waveform. • See page 72 for IC Block Diagrams.



7-27. PRINTED WIRING BOARD – I/O Section (1/2) –

• See page 33 for Circuit Boards Location.

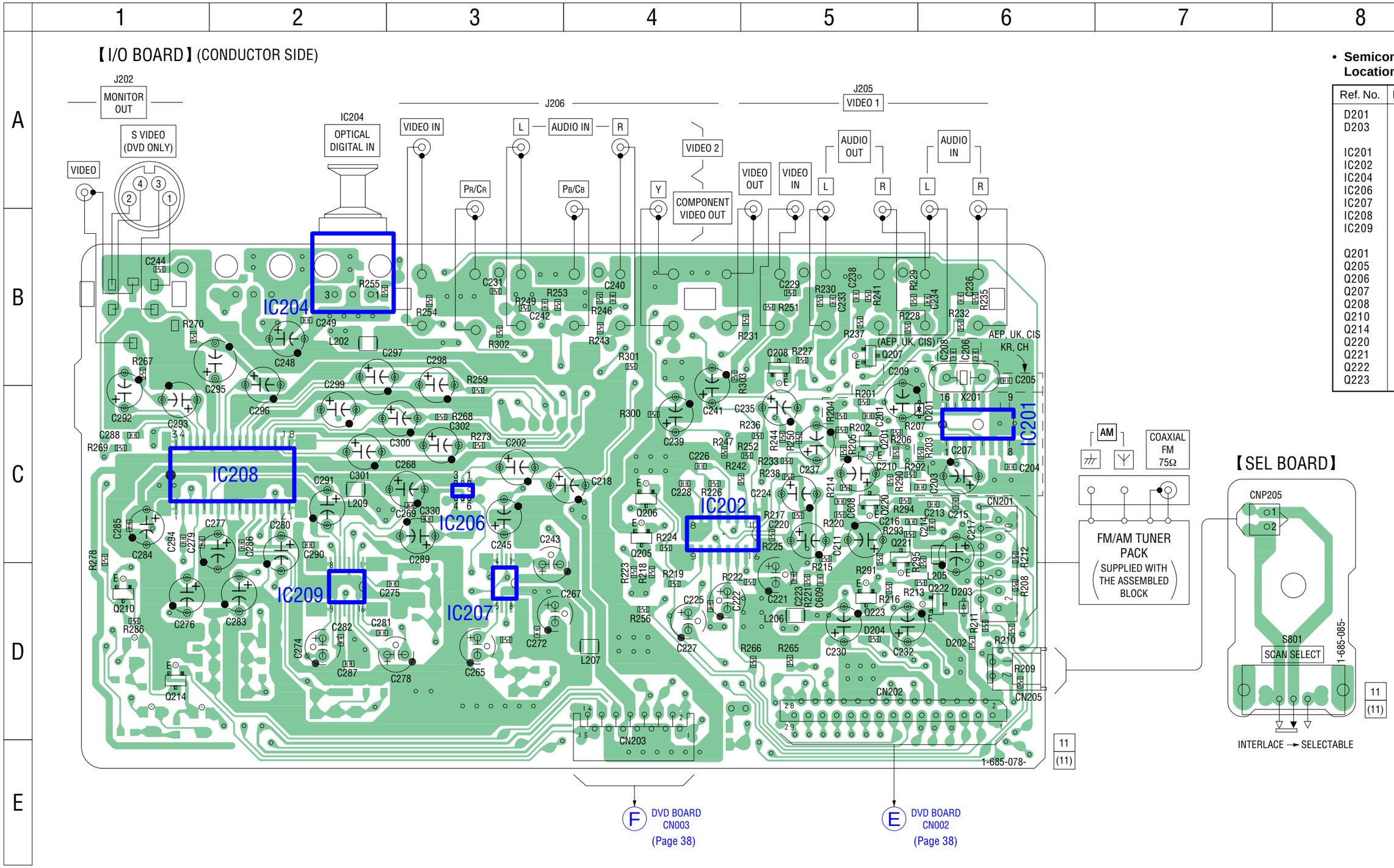
【I/O BOARD】(COMPONENT SIDE)



11
(11)

7-28. PRINTED WIRING BOARDS – I/O Section (2/2) – • See page 33 for Circuit Boards Location.

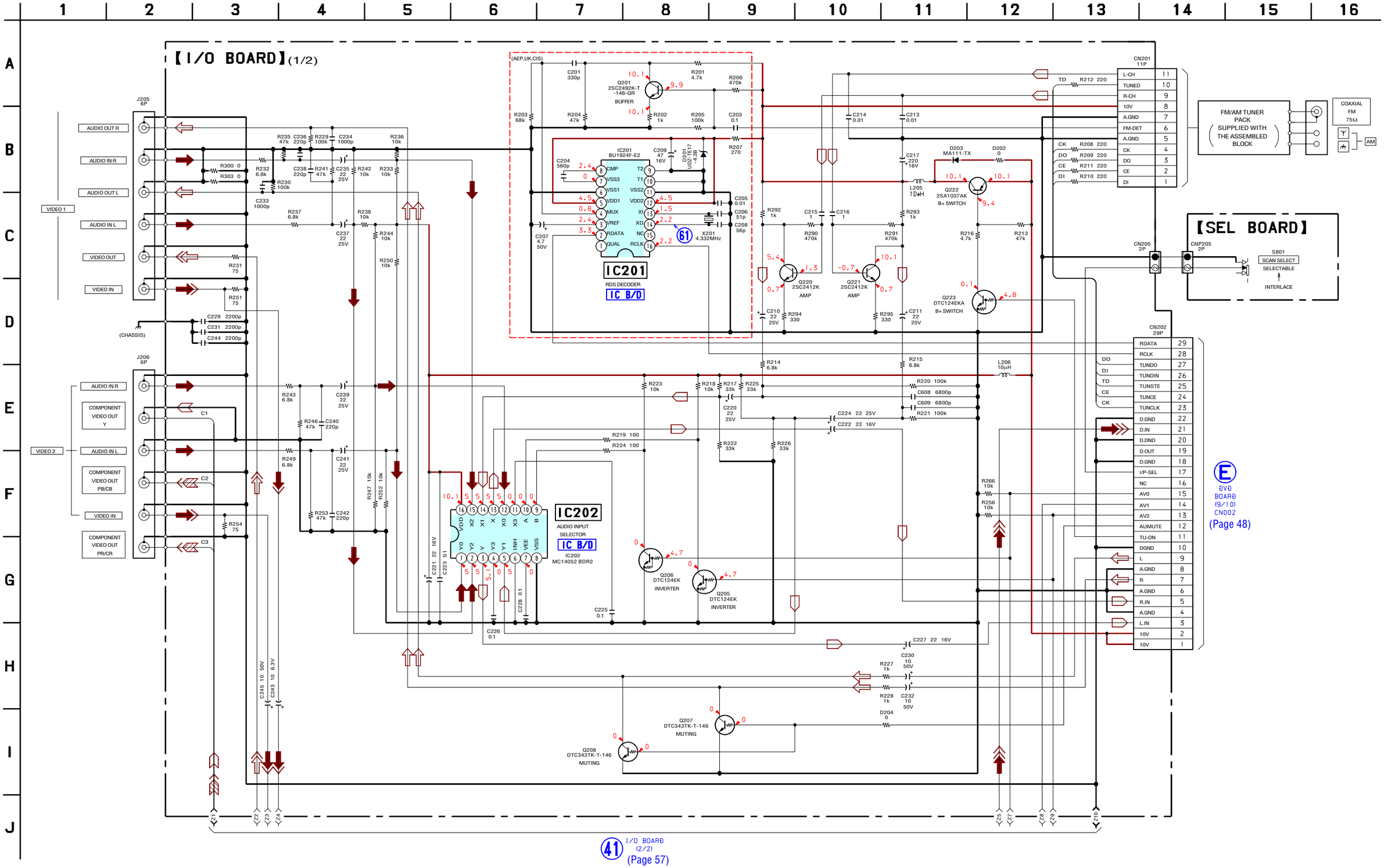
【I/O BOARD】(CONDUCTOR SIDE)



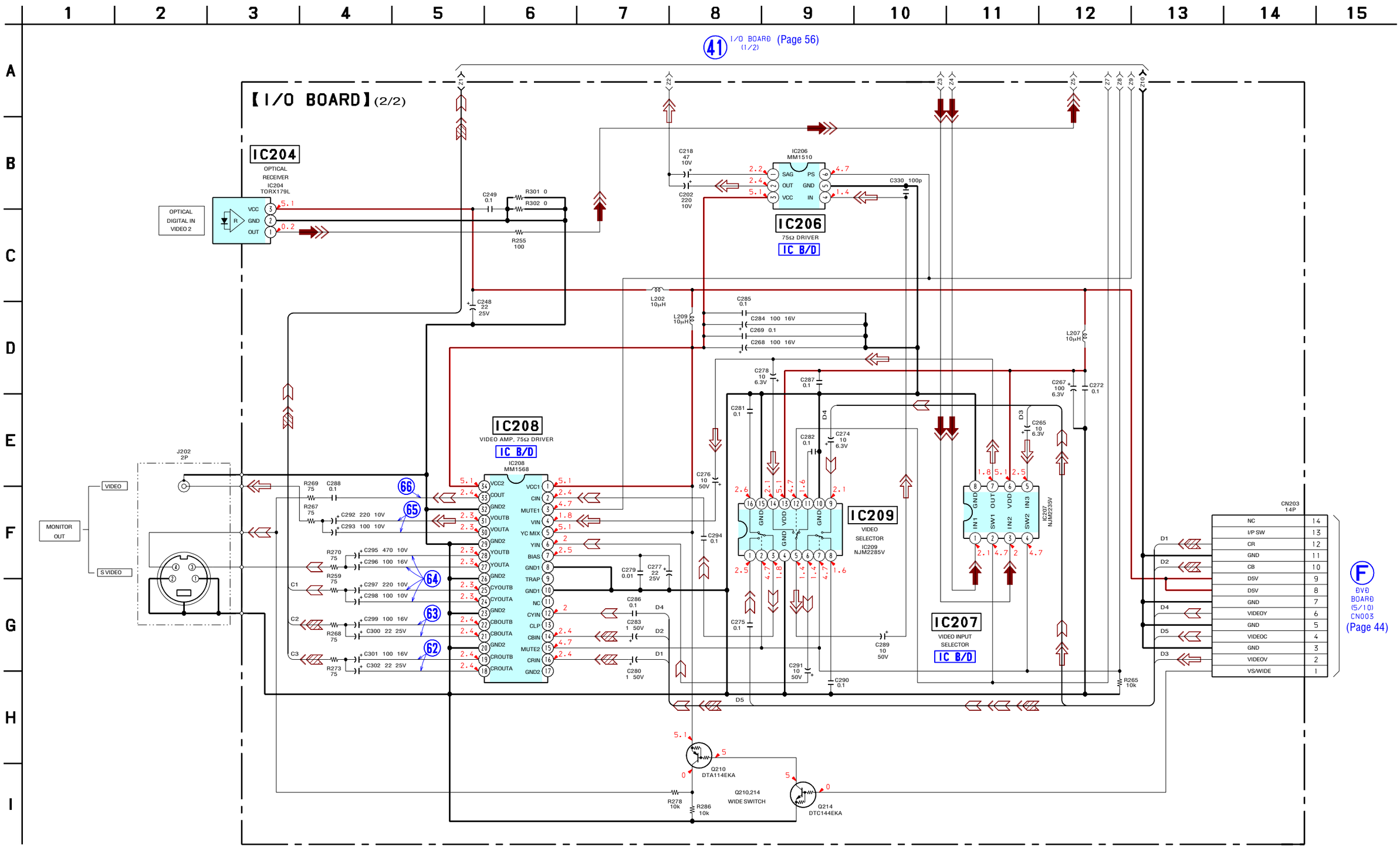
- **Semiconductor Location**

Ref. No.	Location
D201	C-6
D203	D-6
IC201	C-6
IC202	C-4
IC204	B-2
IC206	C-3
IC207	D-3
IC208	C-2
IC209	D-2
Q201	C-5
Q205	C-4
Q206	C-4
Q207	B-5
Q208	B-5
Q210	D-1
Q214	D-1
Q220	C-5
Q221	C-5
Q222	D-6
Q223	D-5

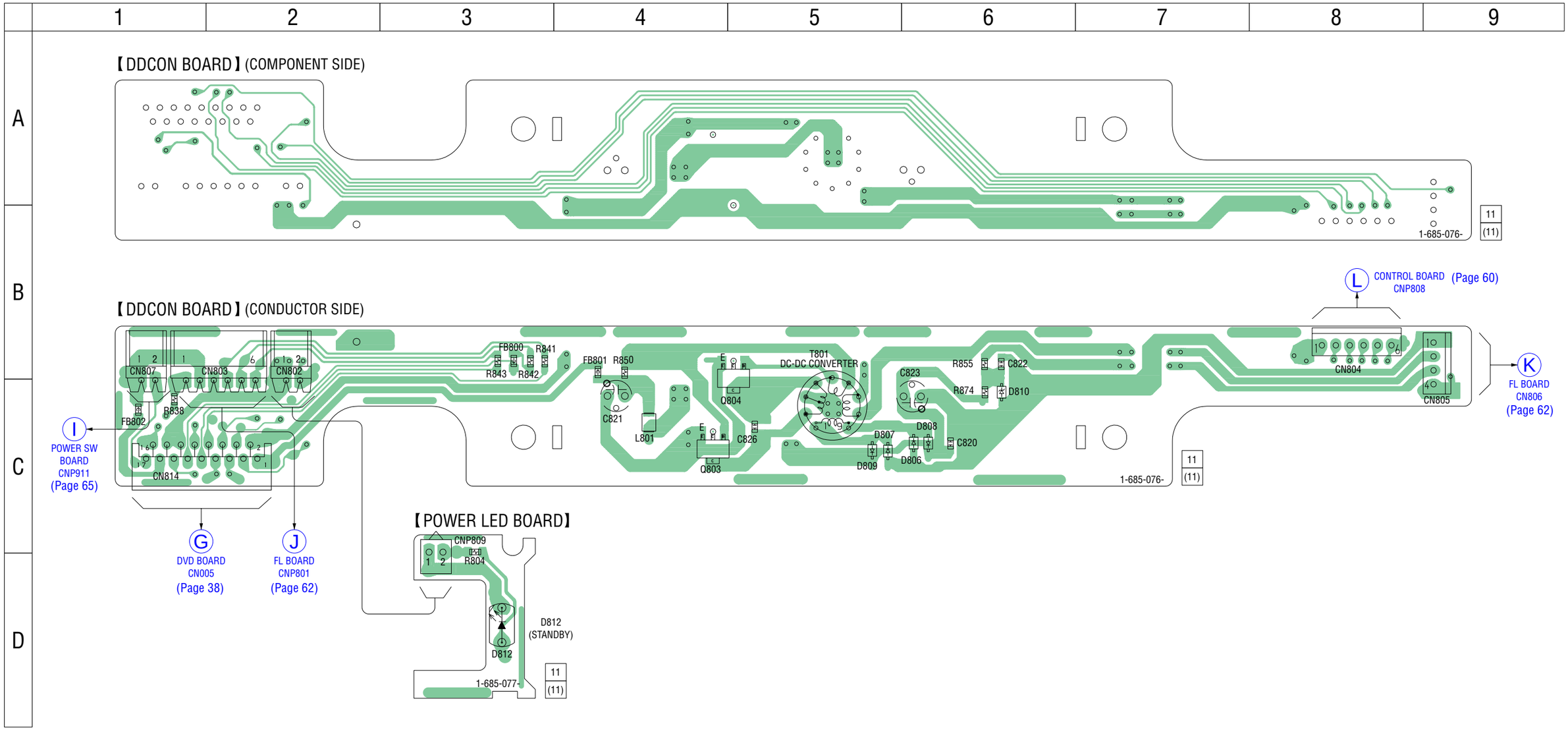
7-29. SCHEMATIC DIAGRAM – I/O Section (1/2) – • See page 67 for Waveform. • See page 72 for IC Block Diagrams.



7-30. SCHEMATIC DIAGRAM – I/O Section (2/2) – • See page 72 for IC Block Diagrams.



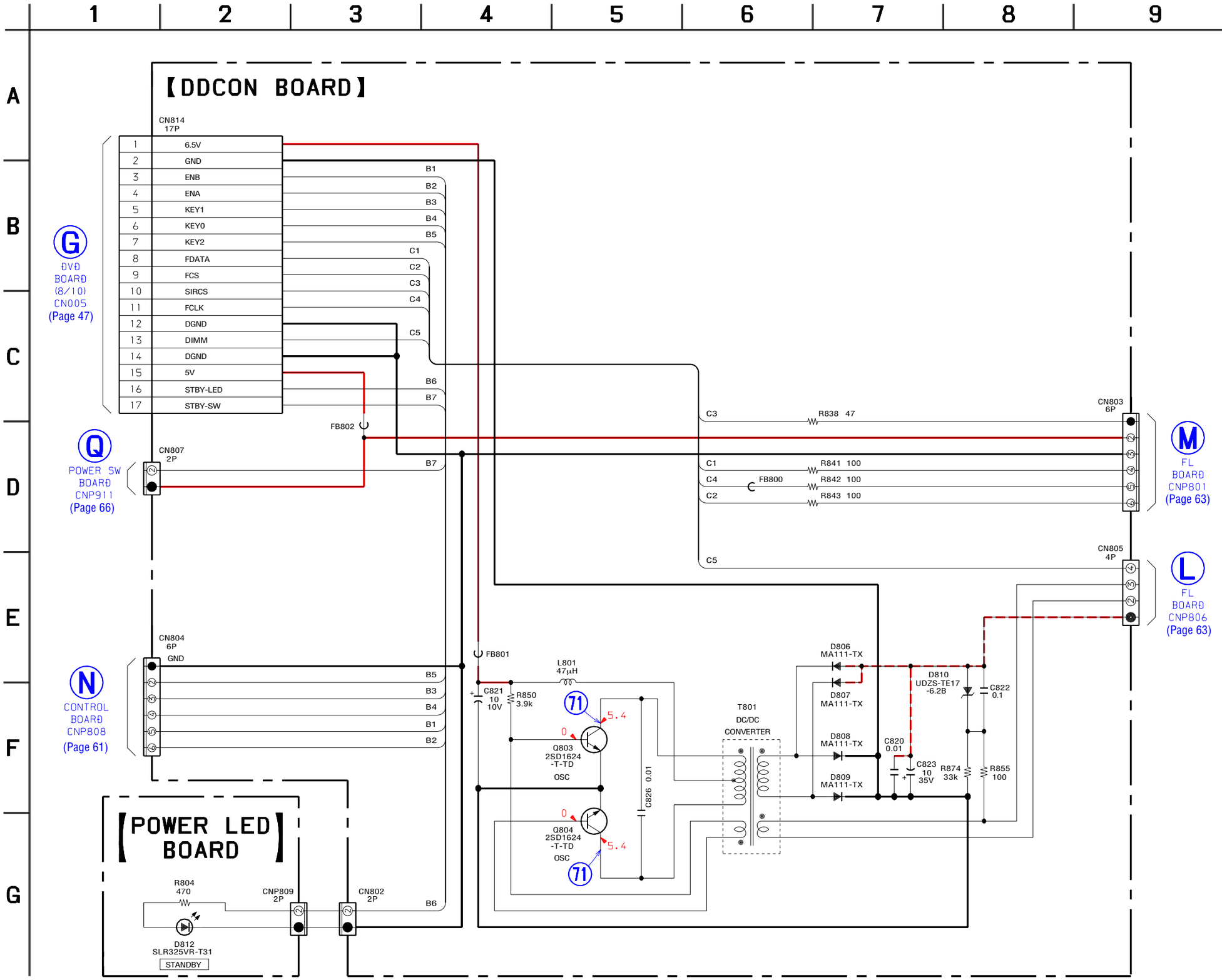
7-31. PRINTED WIRING BOARDS – DC-DC CONVERTER Section – • See page 33 for Circuit Boards Location.



- **Semiconductor Location**

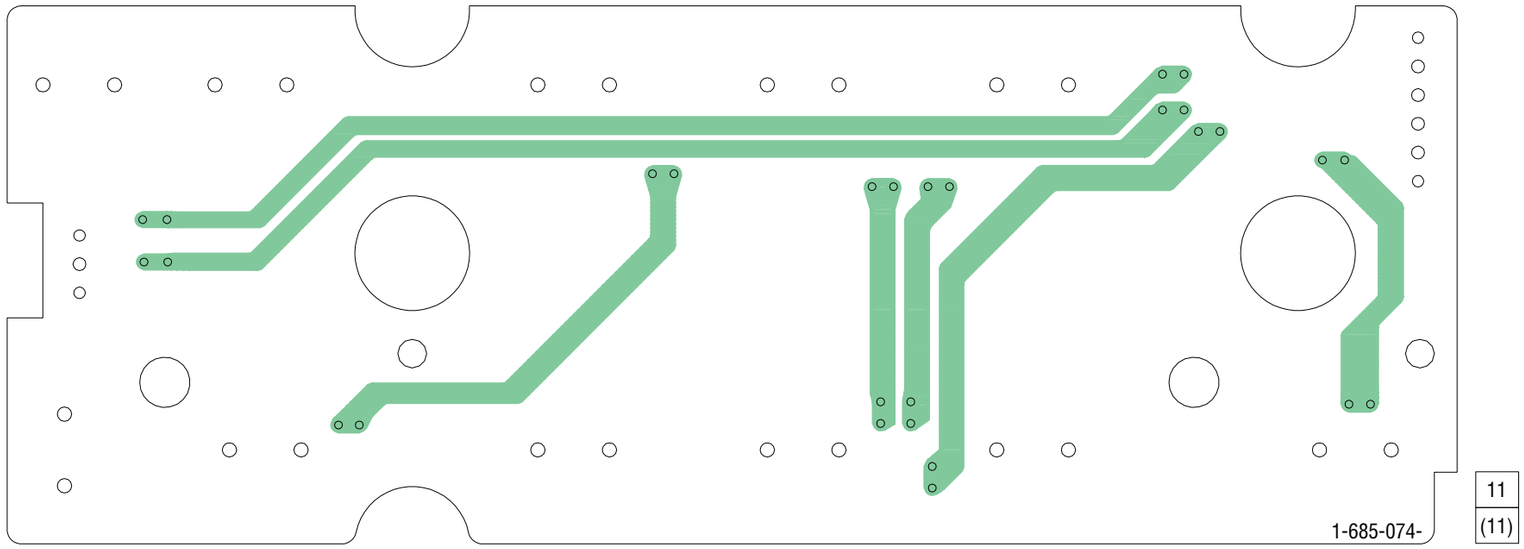
Ref. No.	Location
D806	C-6
D807	C-5
D808	C-6
D809	C-5
D810	C-6
D812	D-3
Q803	C-4
Q804	C-5

7-32. SCHEMATIC DIAGRAM – DC-DC CONVERTER Section –

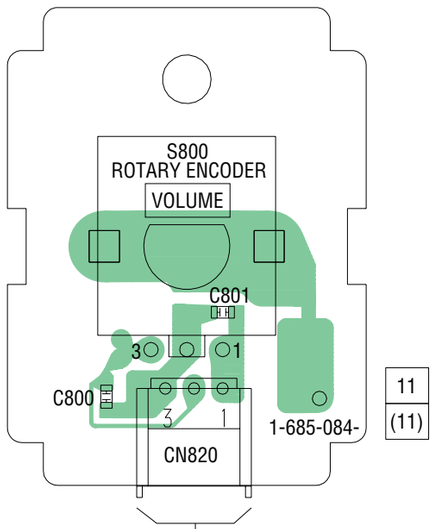


7-33. PRINTED WIRING BOARDS – CONTROL Section – • See page 33 for Circuit Boards Location.

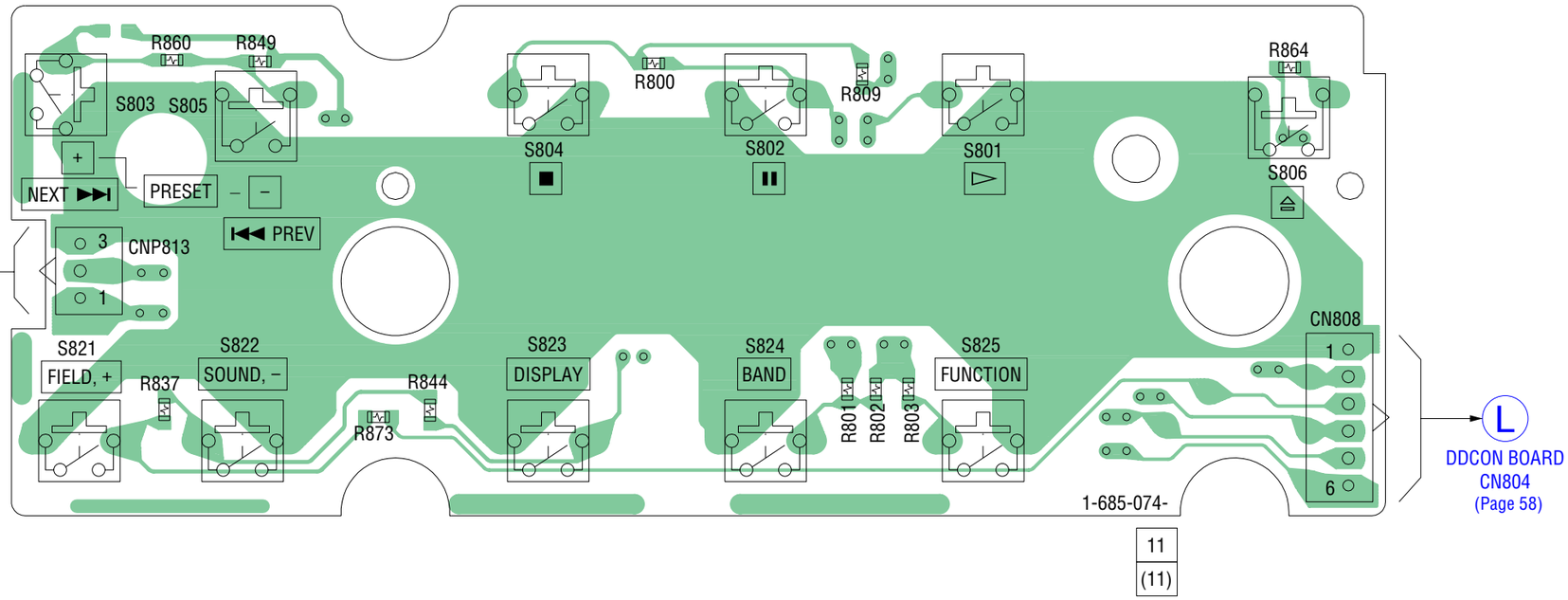
【CONTROL BOARD】(COMPONENT SIDE)



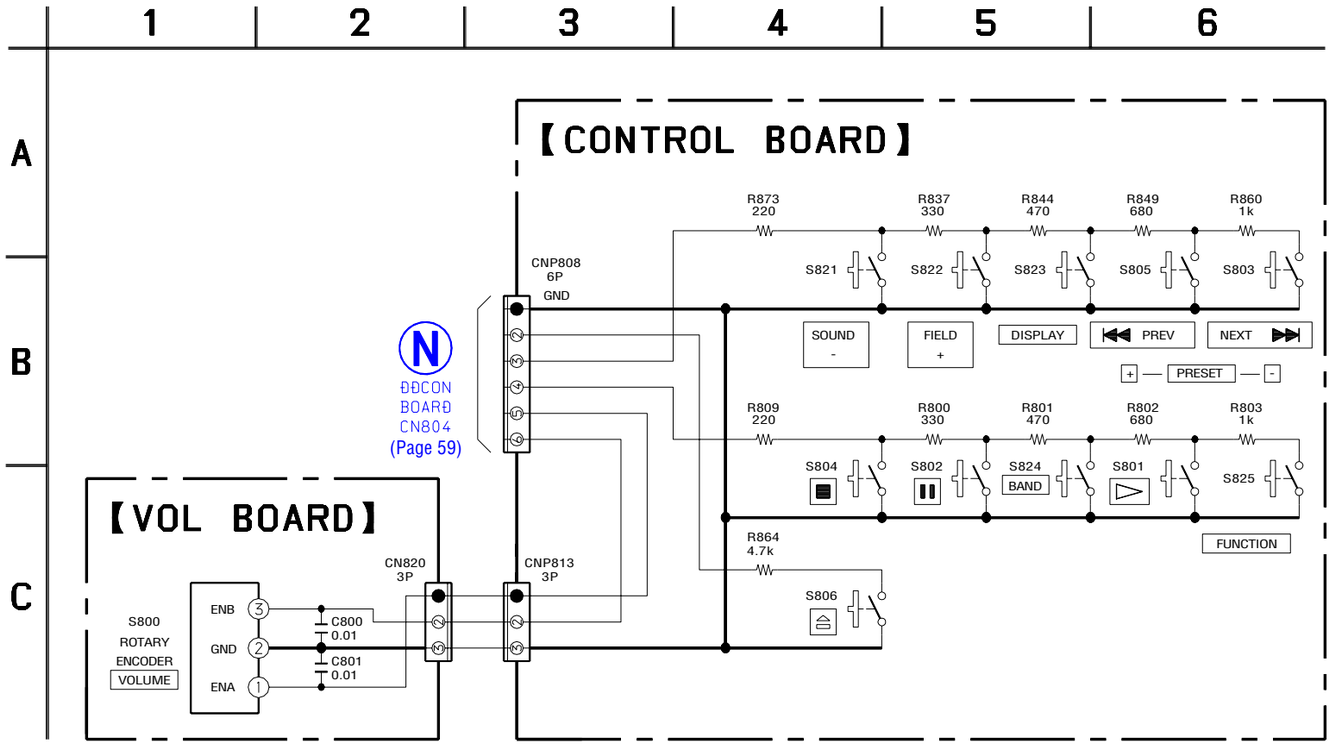
【VOL BOARD】



【CONTROL BOARD】(CONDUCTOR SIDE)

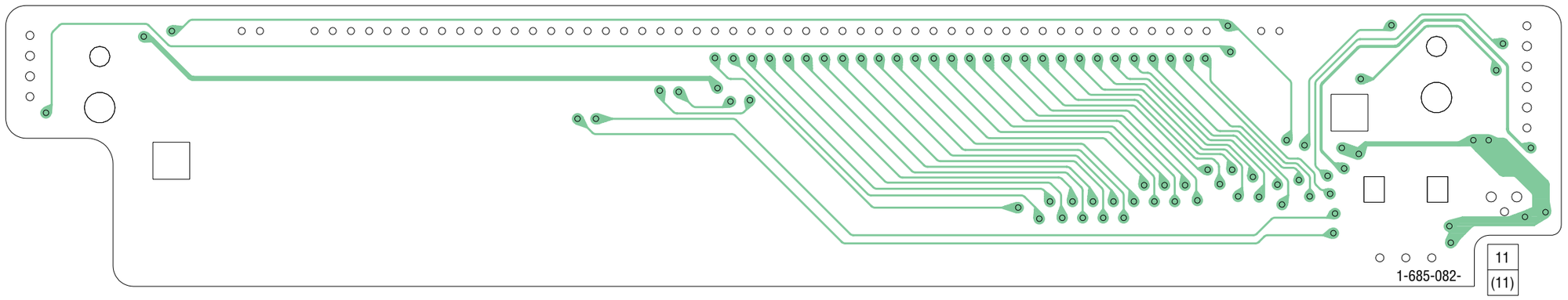


7-34. SCHEMATIC DIAGRAM – CONTROL Section –

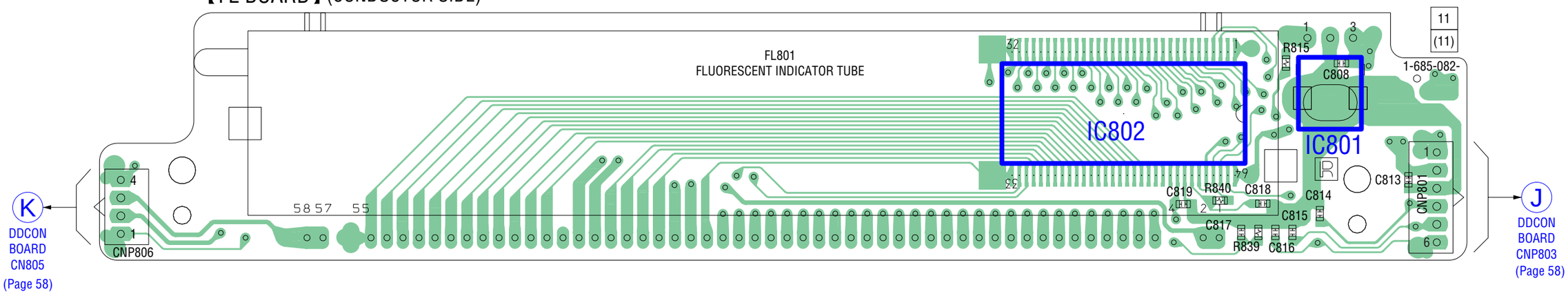


7-35. PRINTED WIRING BOARD – FL Board – • See page 33 for Circuit Boards Location.

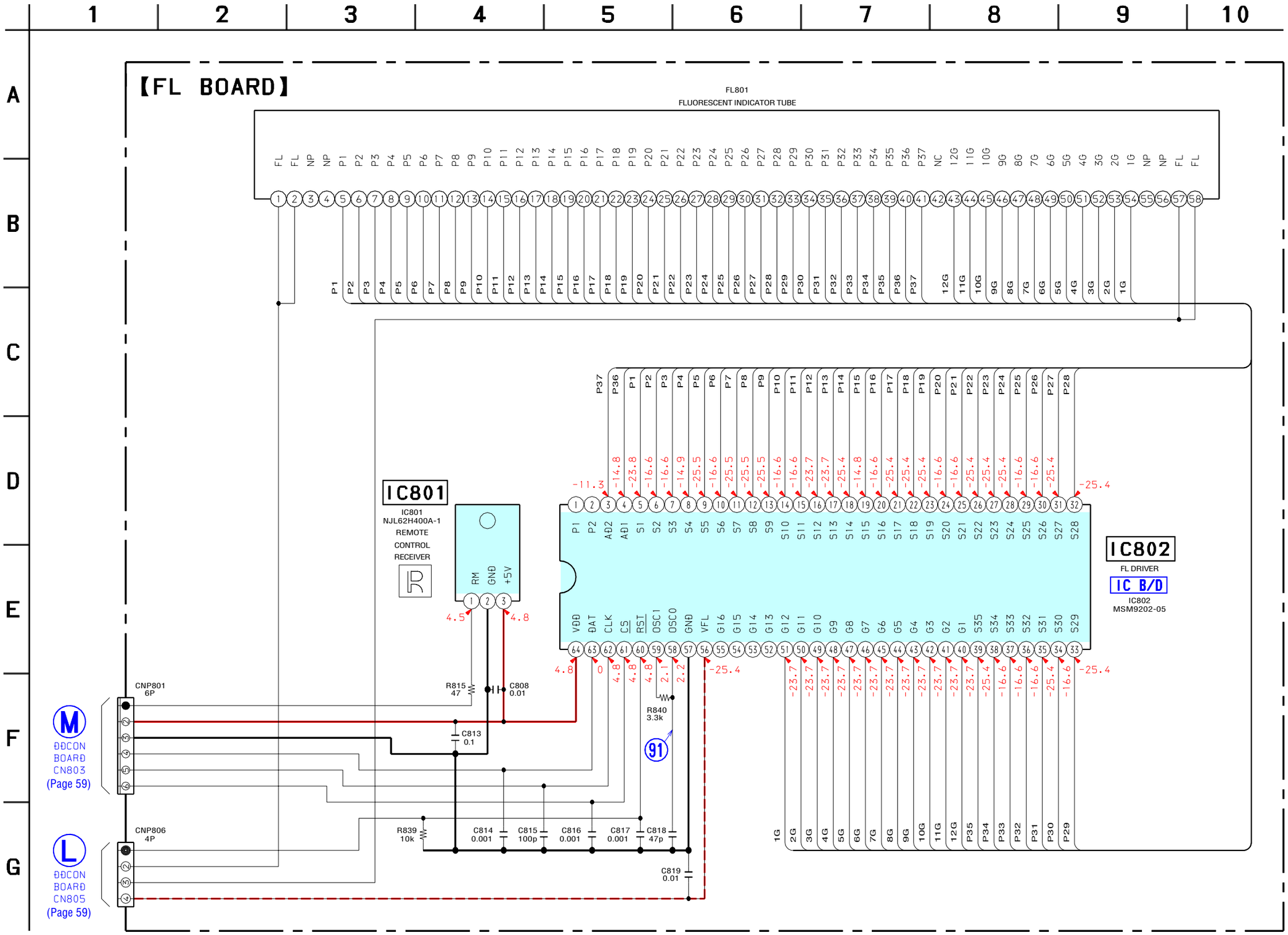
【FL BOARD】(COMPONENT SIDE)



【FL BOARD】(CONDUCTOR SIDE)

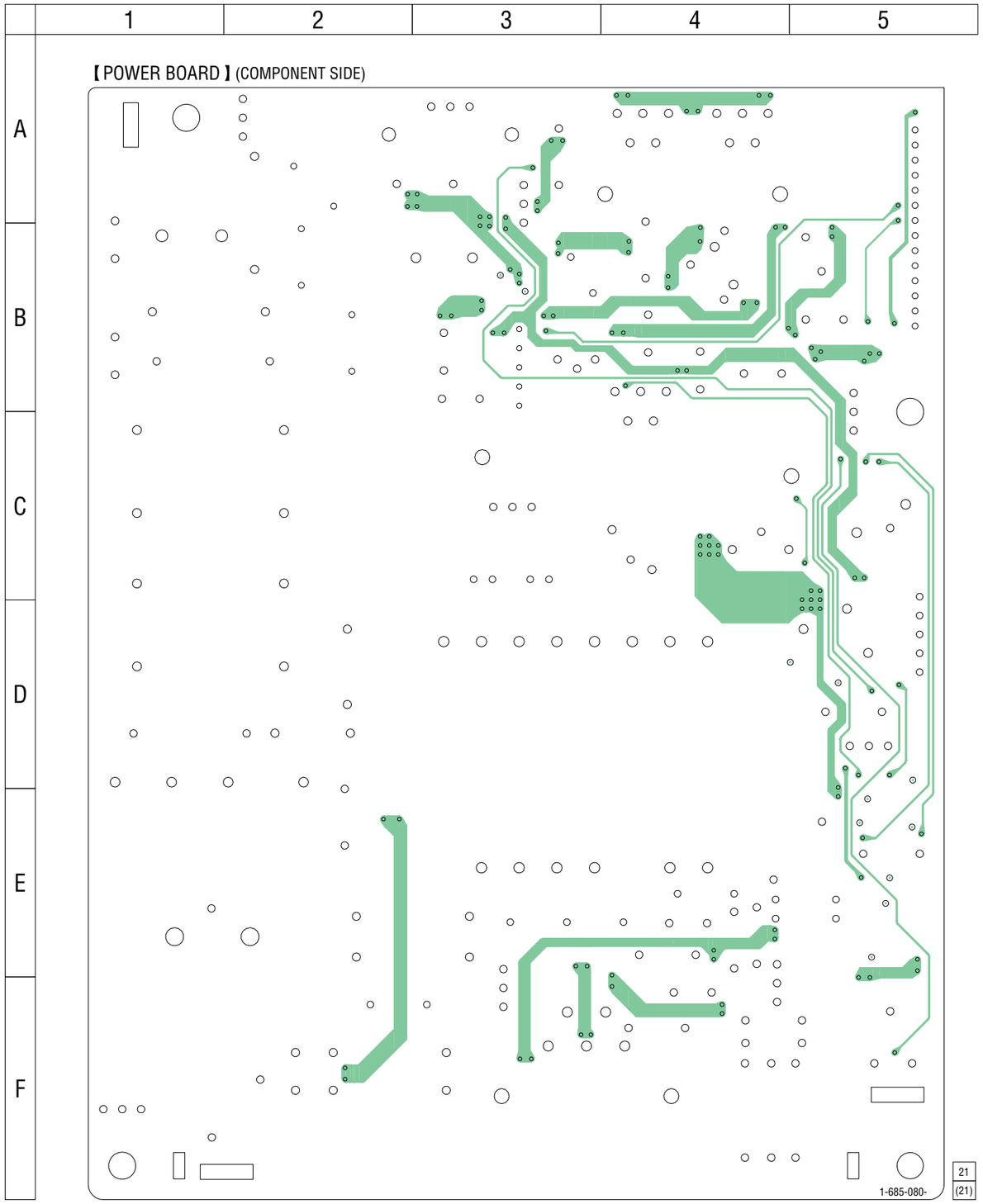


7-36. SCHEMATIC DIAGRAM – FL Board – • See page 67 for Waveform. • See page 72 for IC Block Diagram.

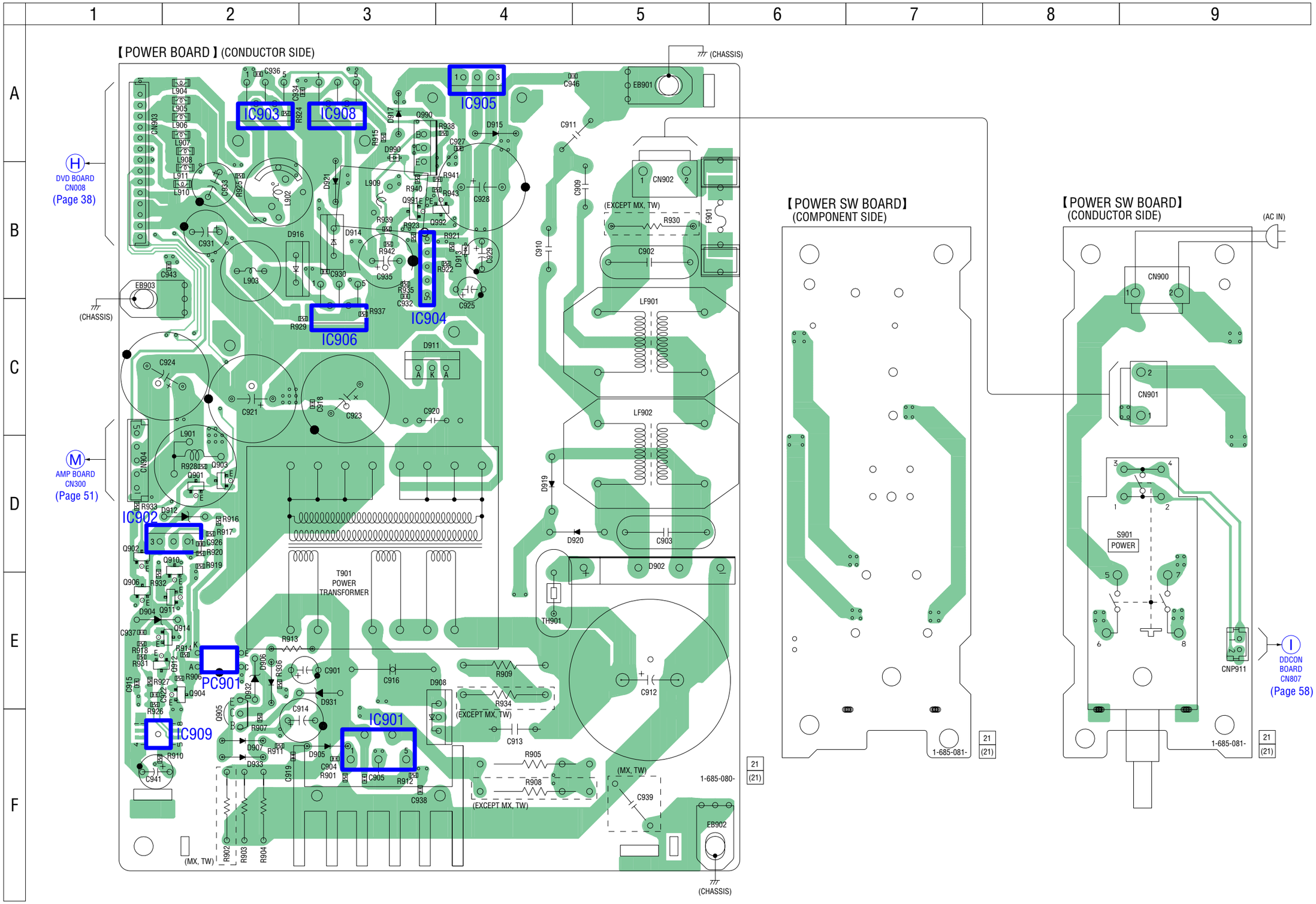


7-37. PRINTED WIRING BOARD – POWER Section (1/2) –

• See page 33 for Circuit Boards Location.



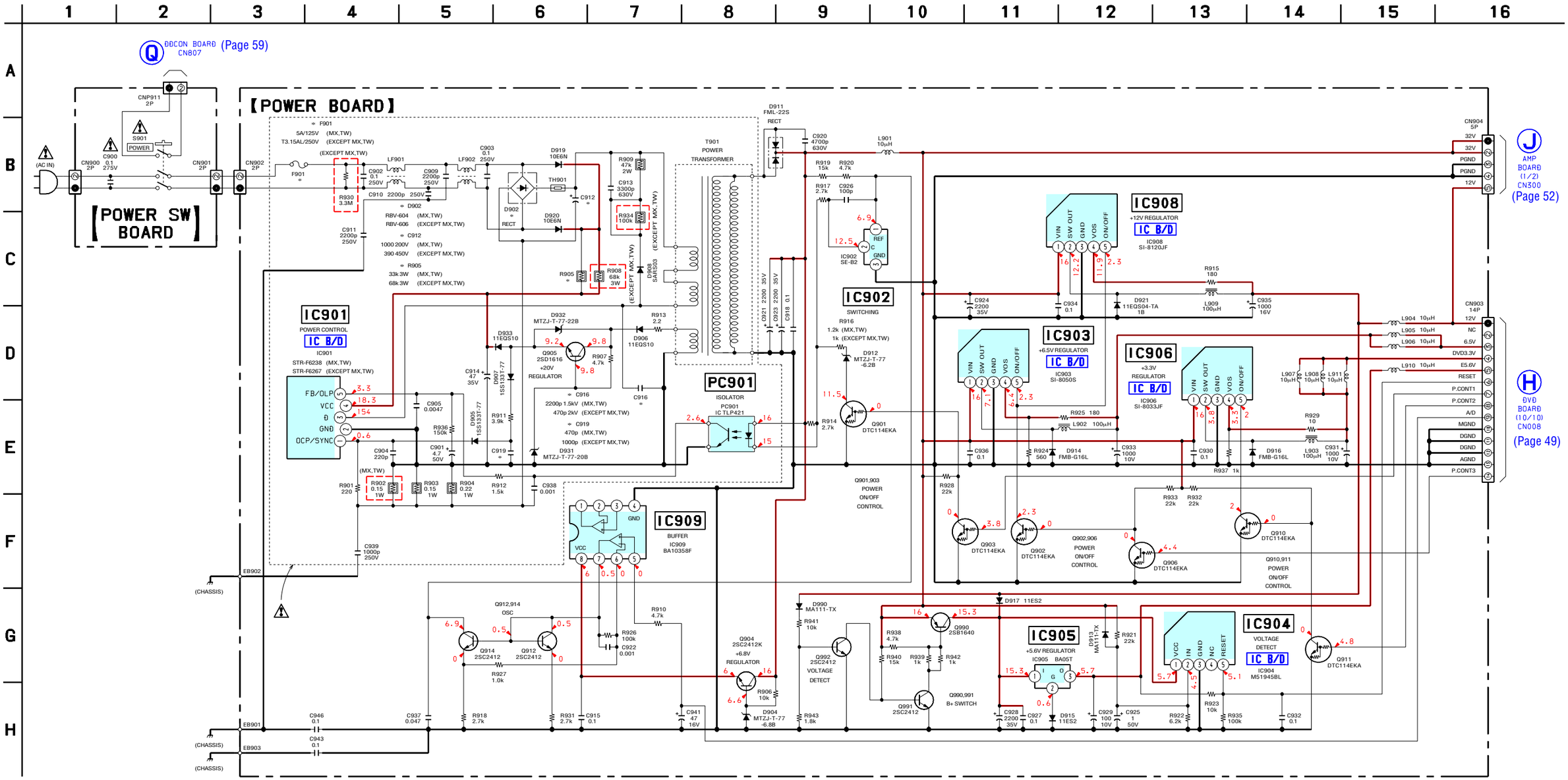
7-38. PRINTED WIRING BOARDS – POWER Section (2/2) – • See page 33 for Circuit Boards Location.



- **Semiconductor Location**

Ref. No.	Location
D902	D-5
D904	E-1
D905	F-3
D906	E-2
D907	F-2
D908	F-4
D911	C-3
D912	D-2
D913	B-4
D914	B-3
D915	A-4
D916	B-2
D917	A-3
D919	D-4
D920	D-5
D921	B-3
D931	E-3
D932	E-2
D933	F-2
D990	A-3
IC901	F-3
IC902	D-2
IC903	A-2
IC904	B-3
IC905	A-4
IC906	C-3
IC908	A-3
IC909	F-1
PC901	E-2
Q901	D-2
Q902	D-1
Q903	D-2
Q904	E-2
Q905	F-2
Q906	E-1
Q910	D-2
Q911	E-2
Q912	E-2
Q914	E-2
Q990	A-3
Q991	B-3
Q992	B-4

7-39. SCHEMATIC DIAGRAM – POWER Section – • See page 72 for IC Block Diagrams.

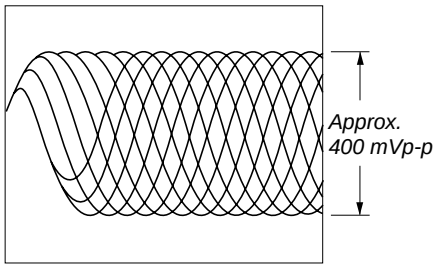

【POWER BOARD】
【POWER SW BOARD】
DDCON BOARD CN807 (Page 59)
IC901 POWER CONTROL IC B/D
IC902 SWITCHING
PC901 ISOLATOR
IC903 +6.5V REGULATOR IC B/D
IC904 VOLTAGE DETECT IC B/D
IC905 +5.6V REGULATOR
IC906 +3.3V REGULATOR IC B/D
IC908 +12V REGULATOR IC B/D
IC909 BUFFER
AMP BOARD (1/2) CN300 (Page 52)
DVD BOARD (10/10) CN008 (Page 49)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

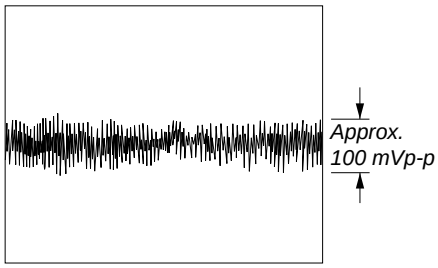
• Waveforms

– RF Board –

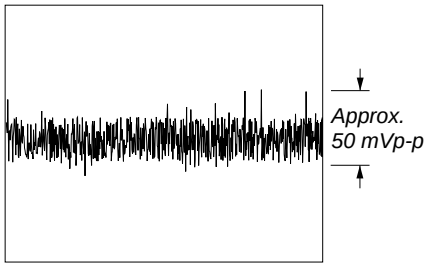
❶ IC001 ① (DVDRFP)



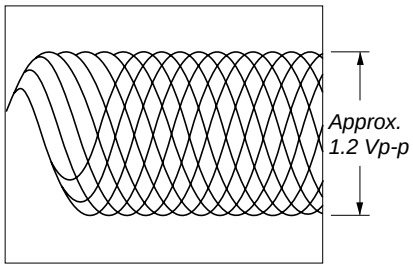
❷ IC001 ㊴ (TE)



❸ IC001 ㊵ (FE)

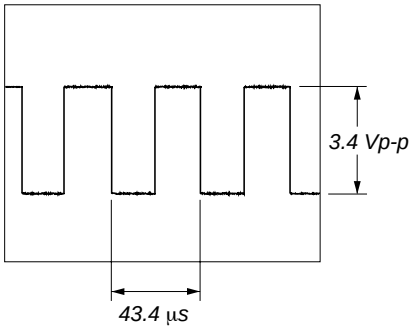


❹ IC001 ㊼ (RFAC)

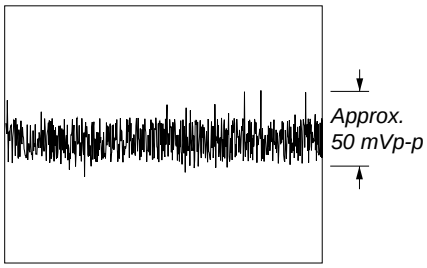


– DVD Board –

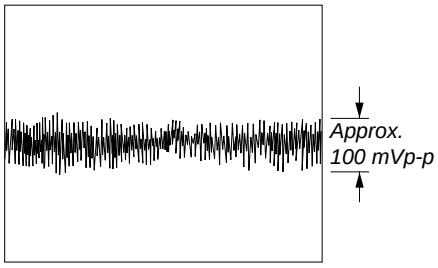
⓫ IC401 ⑩ (WFCK)



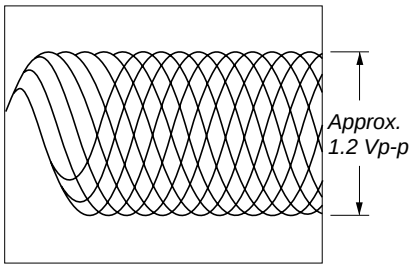
⓬ IC401 ㊴ (FE)



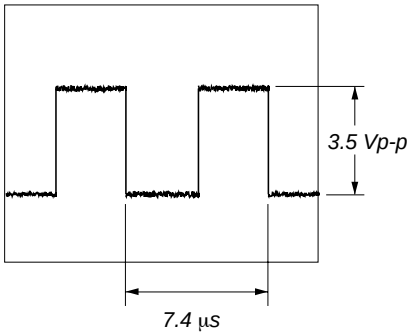
⓭ IC401 ㊶ (TE)



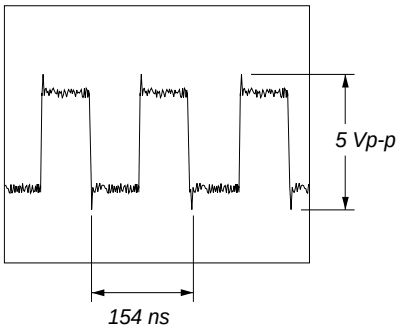
⓮ IC401 ㊿ (RFAC)



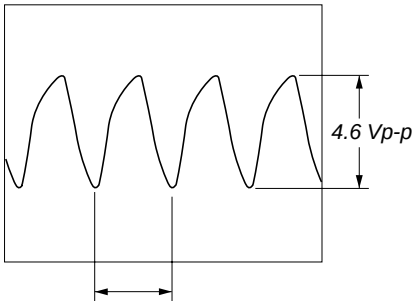
⓯ IC401 ㊺ (LRCK)



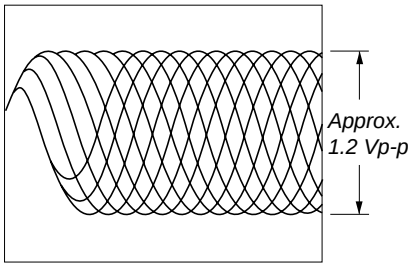
⓰ IC401 ㊼ (BCK)



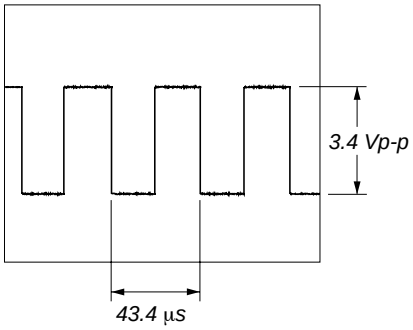
⓱ IC401 ㉑ (XTAI)



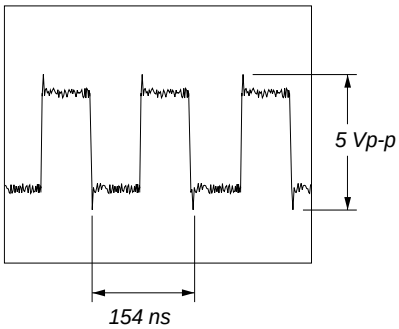
⓲ IC701 ⑰ (RFIN)



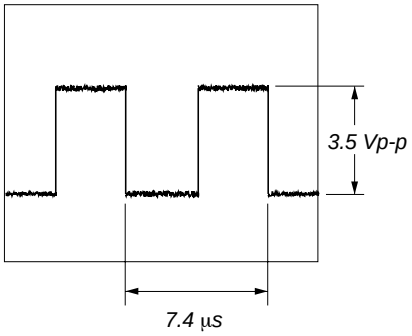
⓳ IC701 ⑮ (WFCK)



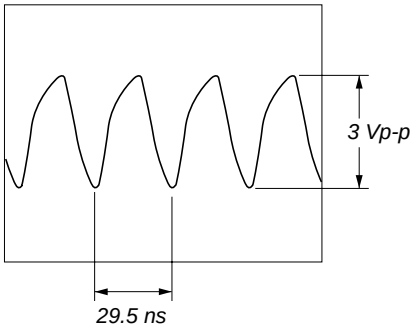
⓴ IC701 ⑱ (BCLK)



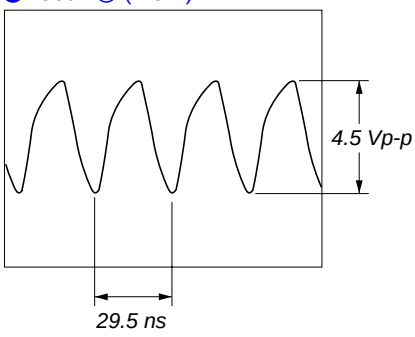
㉑ IC701 ⑯③ (LRCK)



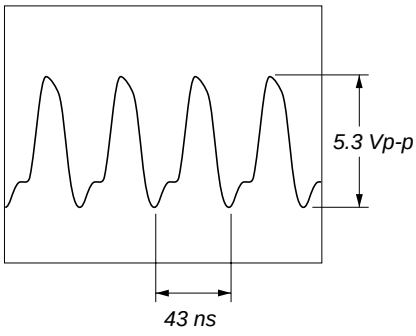
㉒ IC701 ⑰⑧ (XTAL1)



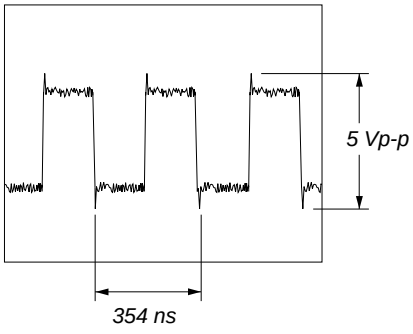
㉓ IC801 ⑪ (MCKI)



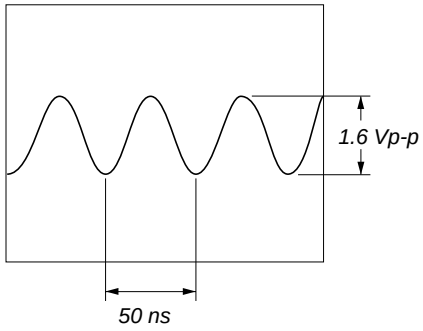
㉔ IC801 ⑬ (EXCKO1)



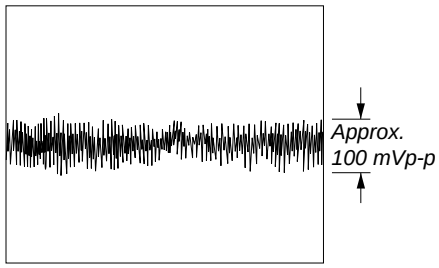
㉕ IC801 ⑥② (PHREFO)



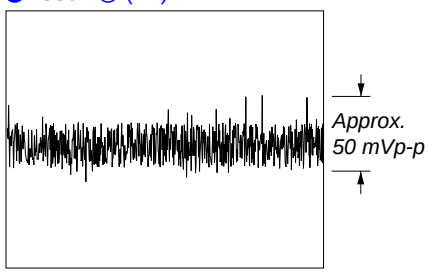
㉖ IC301 ④① (EXTAL)



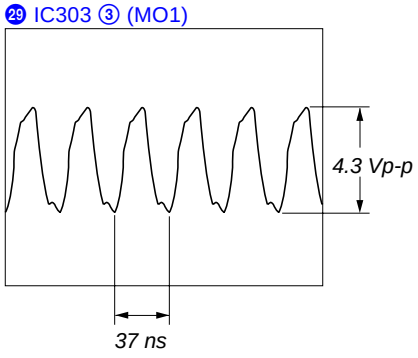
㉗ IC301 ⑥⑤ (TE)



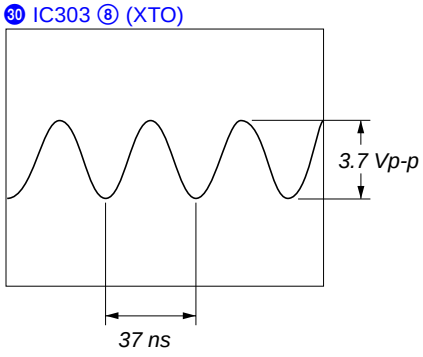
㉘ IC301 ⑥⑦ (FE)



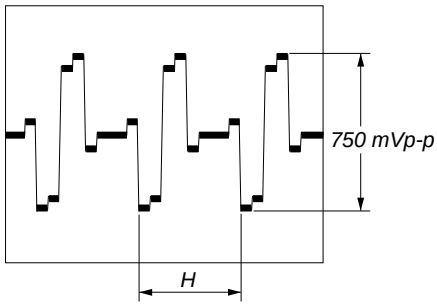
㉙ IC303 ③ (MO1)



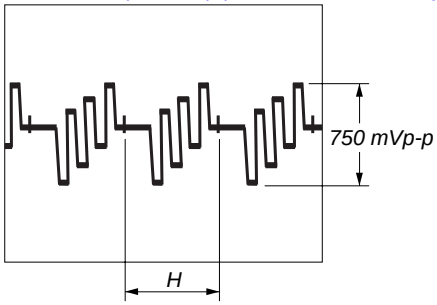
㉚ IC303 ⑧ (XTO)



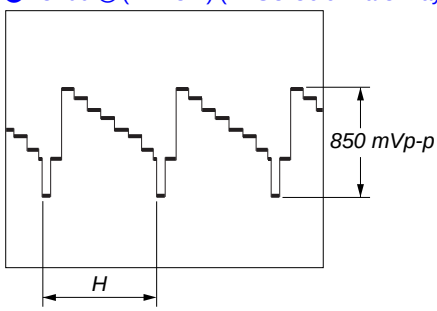
㉛ IC206 ⑪⑨ (VDAC 4) (NTSC Color Bars Play)



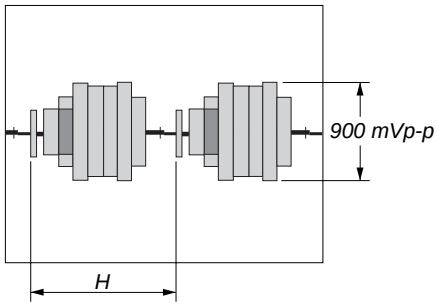
㉜ IC206 ⑫② (VDAC 3) (NTSC Color Bars Play)



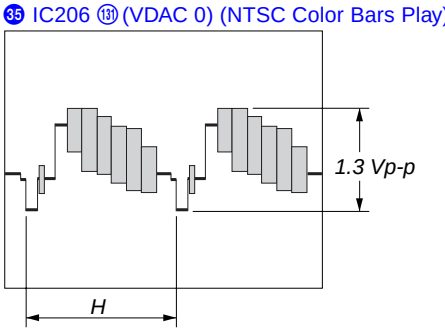
㉝ IC206 ⑫⑤ (VDAC 2) (NTSC Color Bars Play)



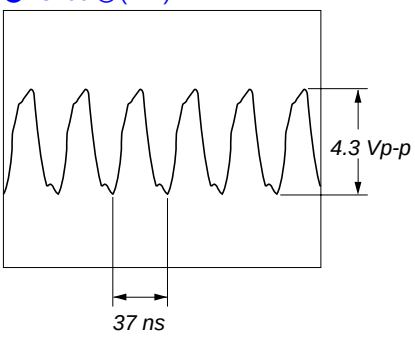
㉞ IC206 ⑫⑧ (VDAC 1) (NTSC Color Bars Play)



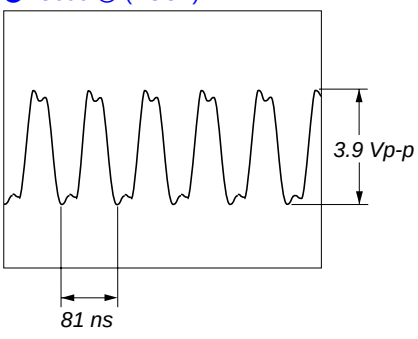
㉟ IC206 ⑬① (VDAC 0) (NTSC Color Bars Play)



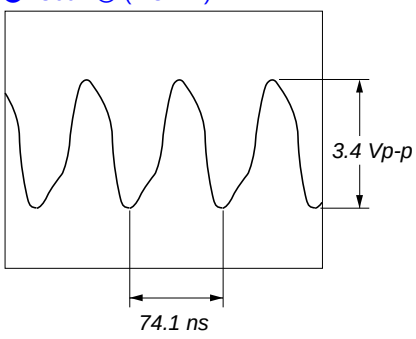
㊱ IC206 ⑬ (XIN)



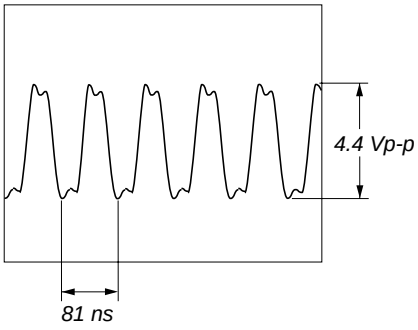
㊶ IC606 ㉑ (XOUT)



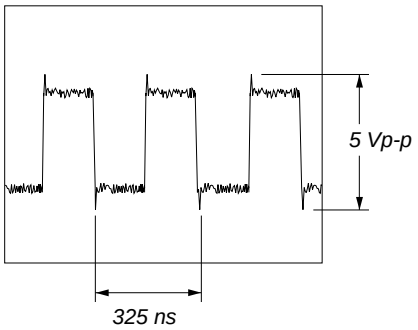
㊻ IC607 ⑫ (MCLK2)



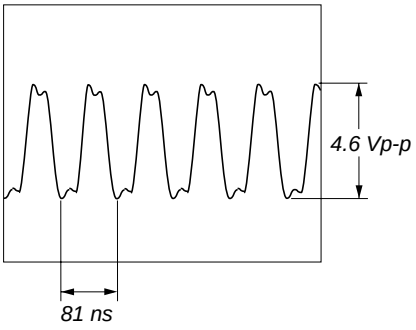
㊲ IC606 ⑬ (CKOUT)



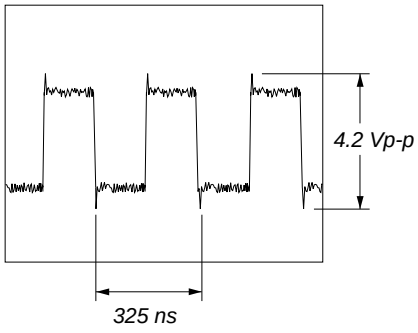
㊷ IC612 ㊸ (F2BCK)



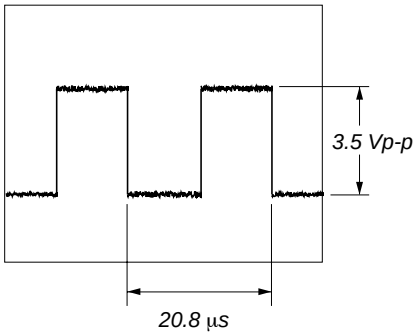
㊼ IC607 ⑭ (SCKOUT)



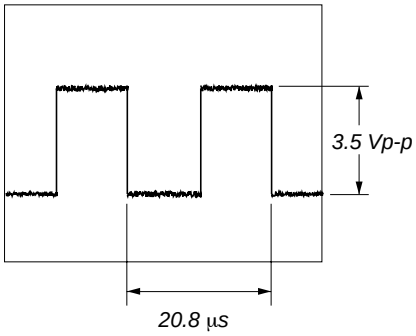
㊳ IC606 ⑭ (BCK)



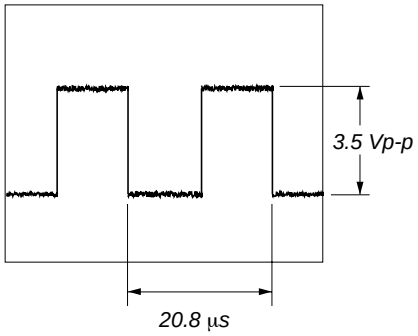
㊸ IC612 ㊹ (F2LRCK)



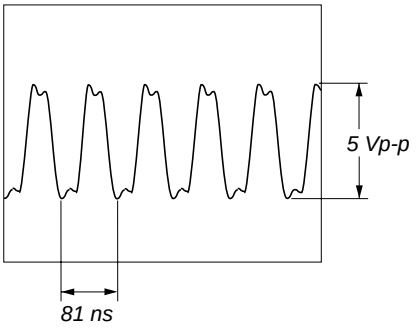
㊽ IC607 ⑲ (LRCKO)



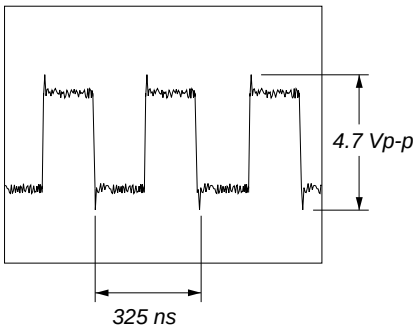
㊴ IC606 ⑮ (LRCK)



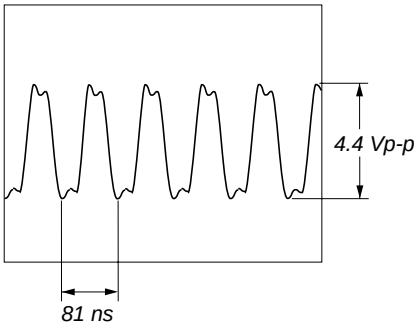
㊹ IC612 ㊾ (CKOUT)



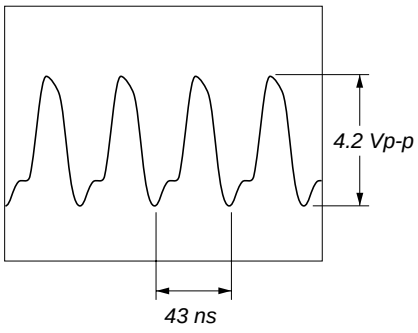
㊾ IC607 ⑳ (BCKO)



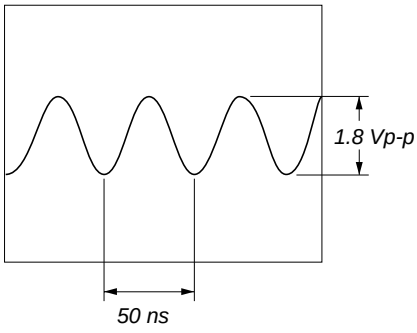
㊵ IC606 ⑳ (XMCK)



㊺ IC612 ㊷ (MCK)

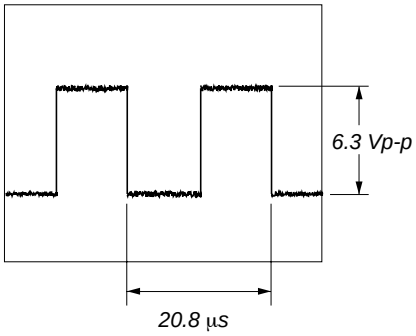


㊿ IC901 ㊳ (X2)

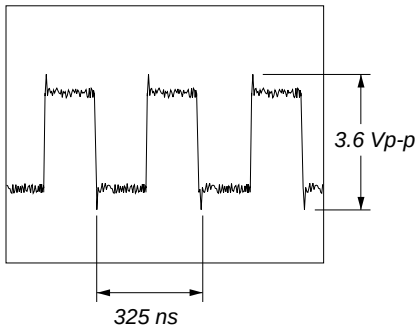


– AMP Board –

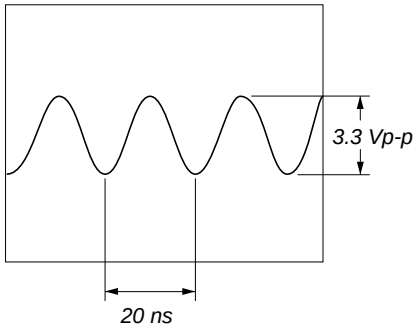
51 IC602 ⑬ (LRCK)



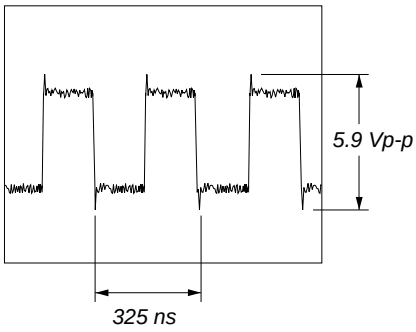
81 IC305, 308, 310 ㊹ (BCK)



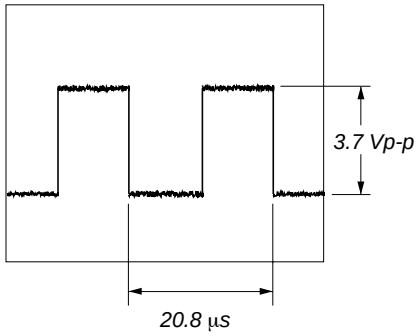
86 IC300 ④



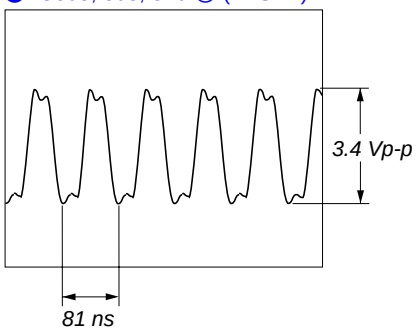
52 IC602 ⑭ (BCK)



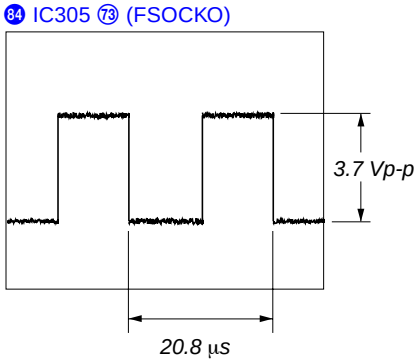
82 IC305, 308, 310 ㊺ (LRCK)



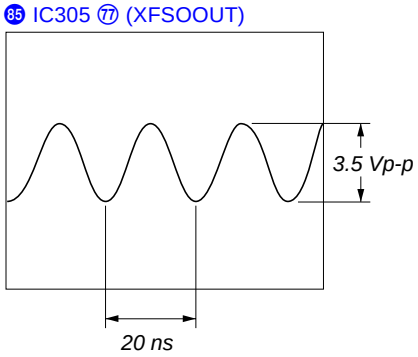
83 IC305, 308, 310 ㊹ (XFSIIN)



84 IC305 ㉝ (FSOCKO)

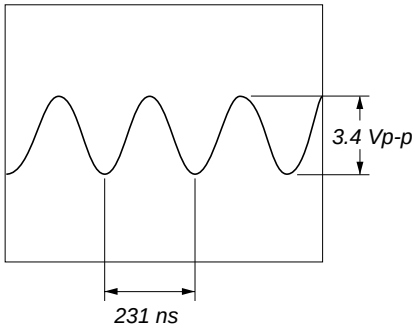


85 IC305 ㉗ (XFSOOUT)

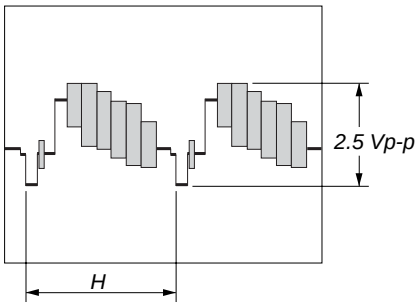


– I/O Board –

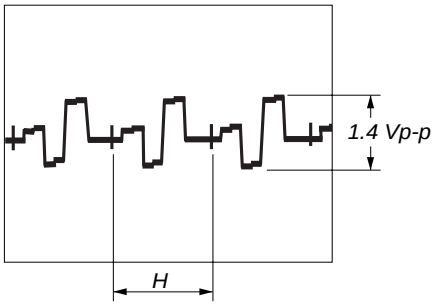
61 IC201 ⑭ (X0)



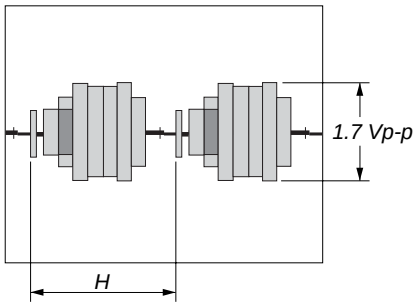
65 IC208 ㉚, ㉛ (VOUT)
(NTSC Color Bars Play)



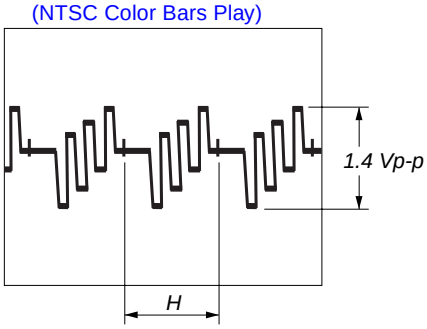
62 IC208 ⑱, ⑲ (CrOUT)
(NTSC Color Bars Play)



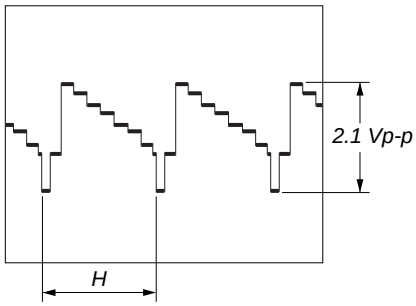
66 IC208 ㉝(COUT)
(NTSC Color Bars Play)



63 IC208 ㉑, ㉒ (CbOUT)
(NTSC Color Bars Play)

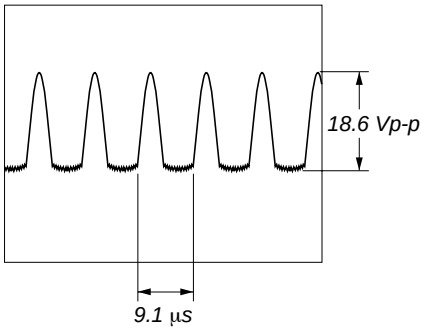


64 IC208 ㉔, ㉕ (CYOUT), ㉗, ㉘ (YOUT)
(NTSC Color Bars Play)



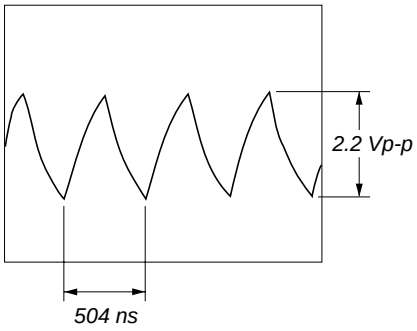
– DDCON Board –

71 Q803, 804 (Collector)



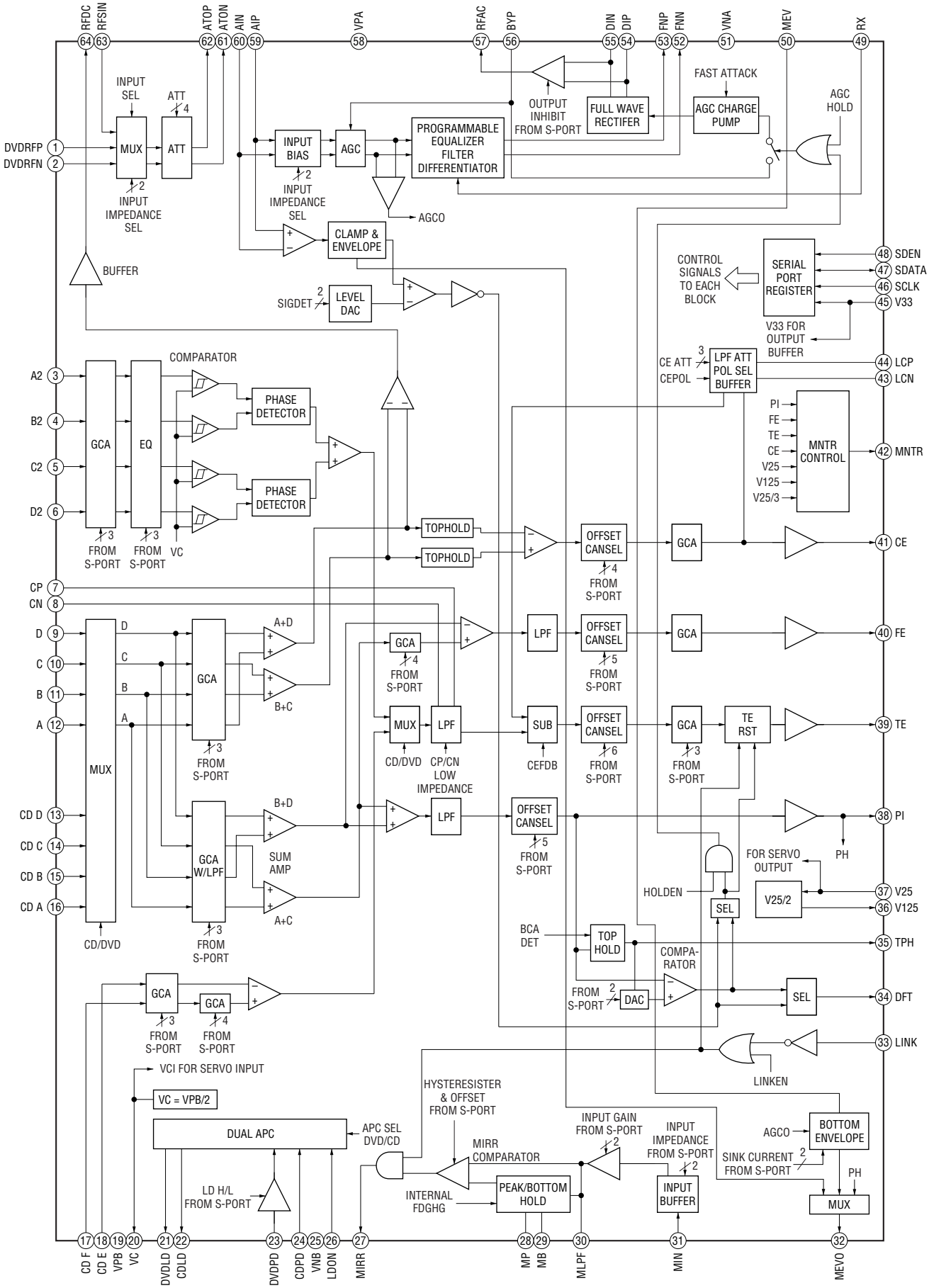
– FL Board –

91 IC802 ㊽ (OSCO)



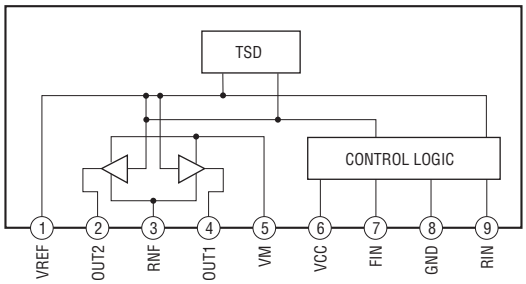
• **IC Block Diagrams**
– RF Board –

IC001 CXD1881AR



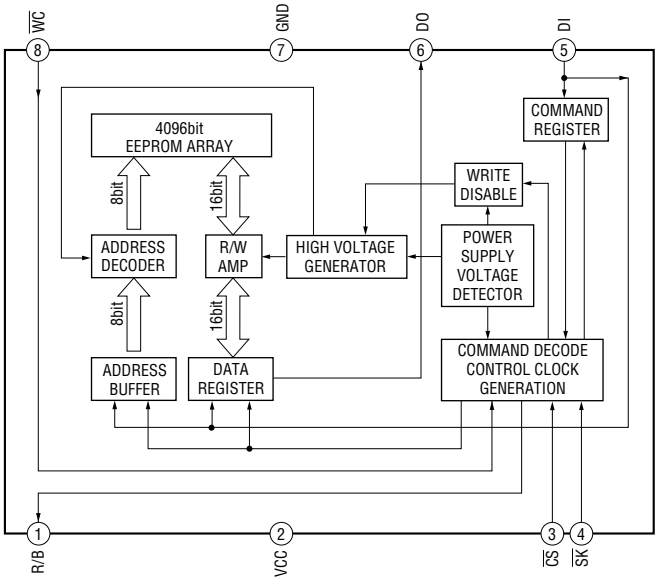
– RELAY Board –

IC701, 711 BA6956AN

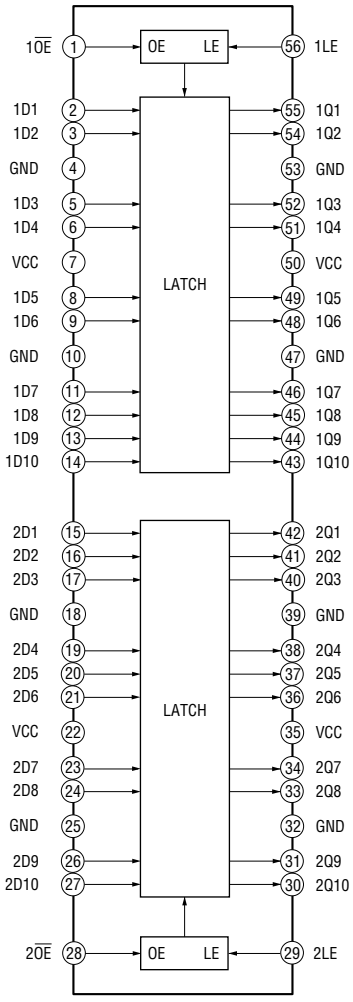


– DVD Board –

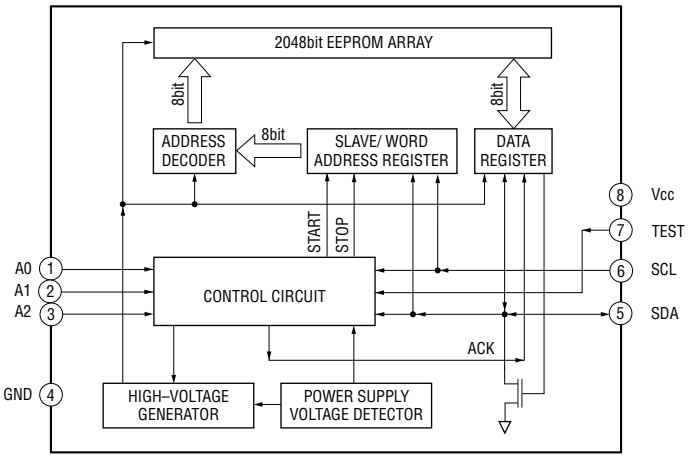
IC203 BR9040F-D-E2



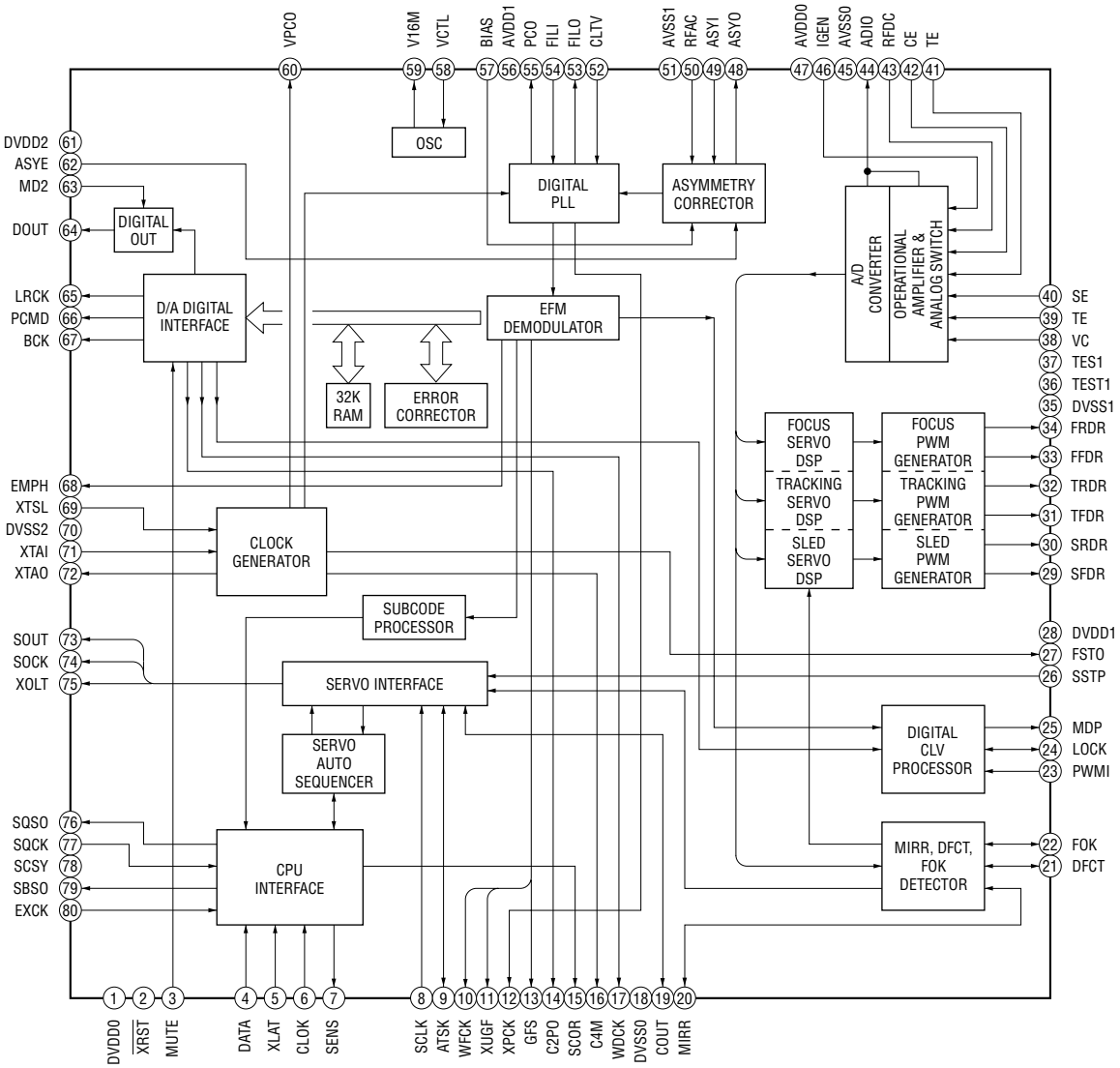
IC215 SN74ALVCH16841DGGR



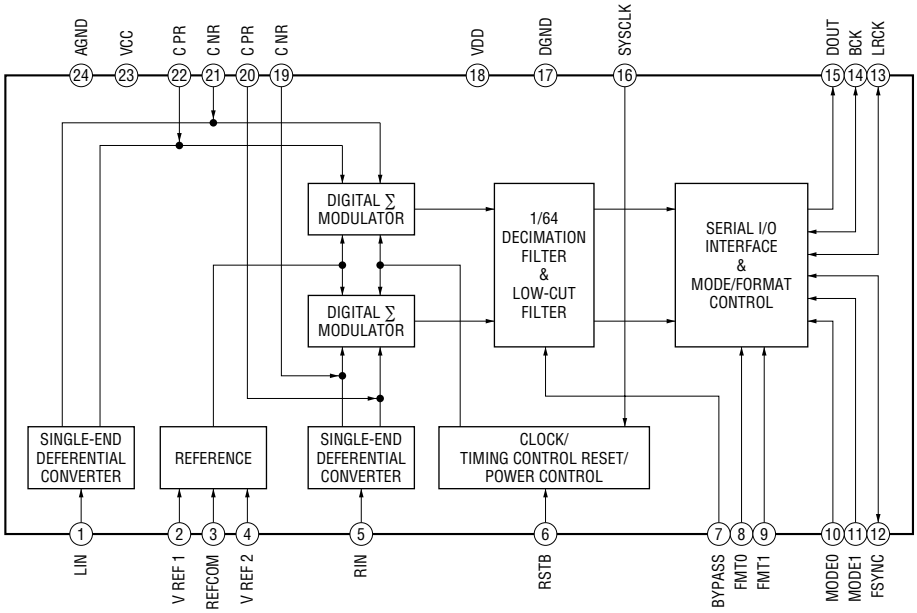
IC302 BR24C08F-E2



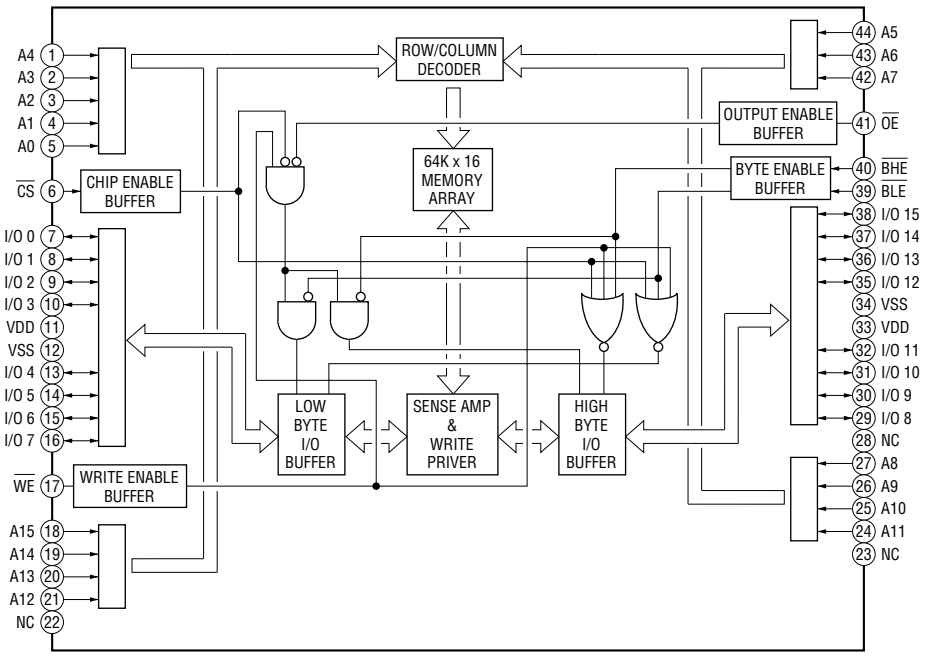
IC401 CXD3068Q



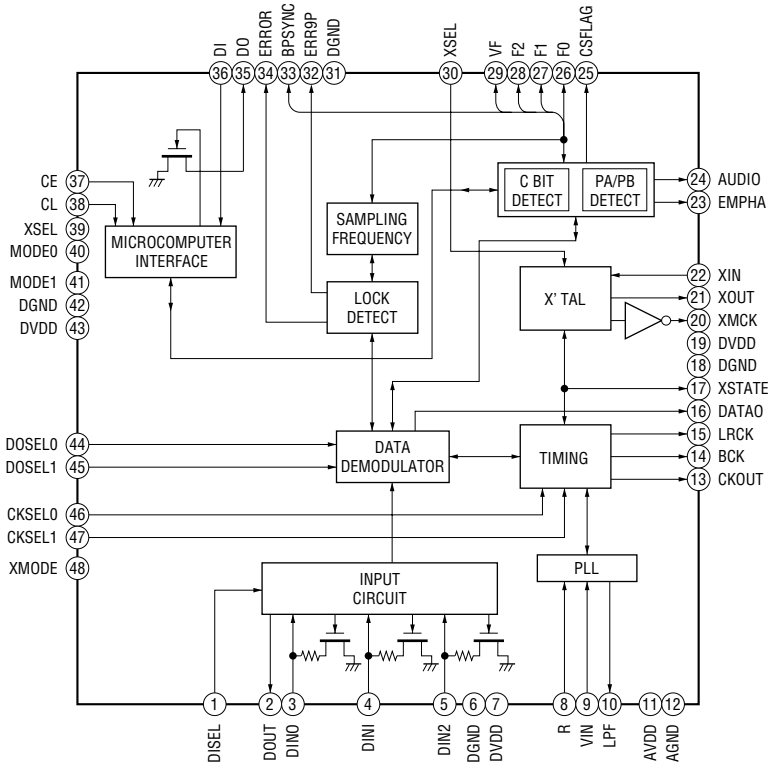
IC602 PCM1800E/2K



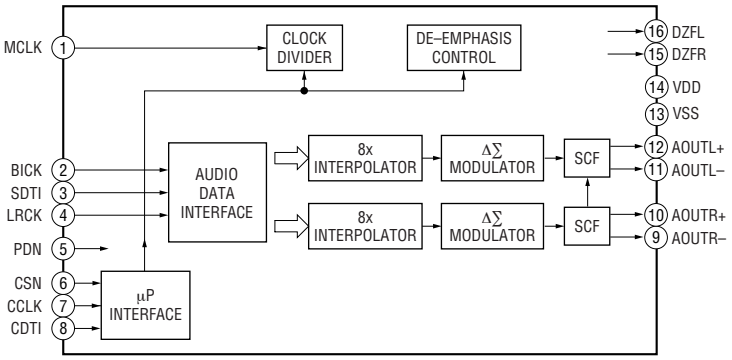
IC604 IDT71V016S15PH-AUTL



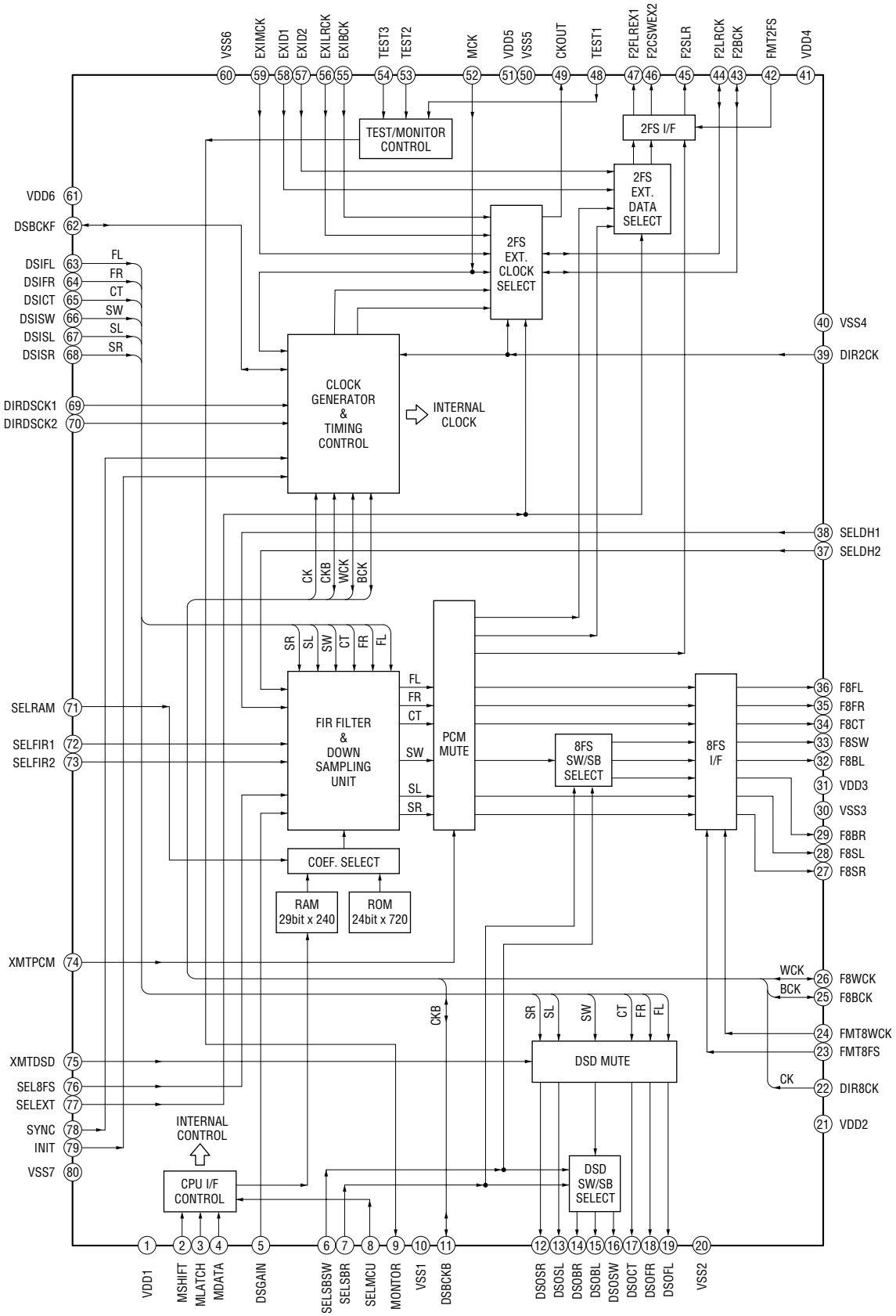
IC606 LC89056W-E



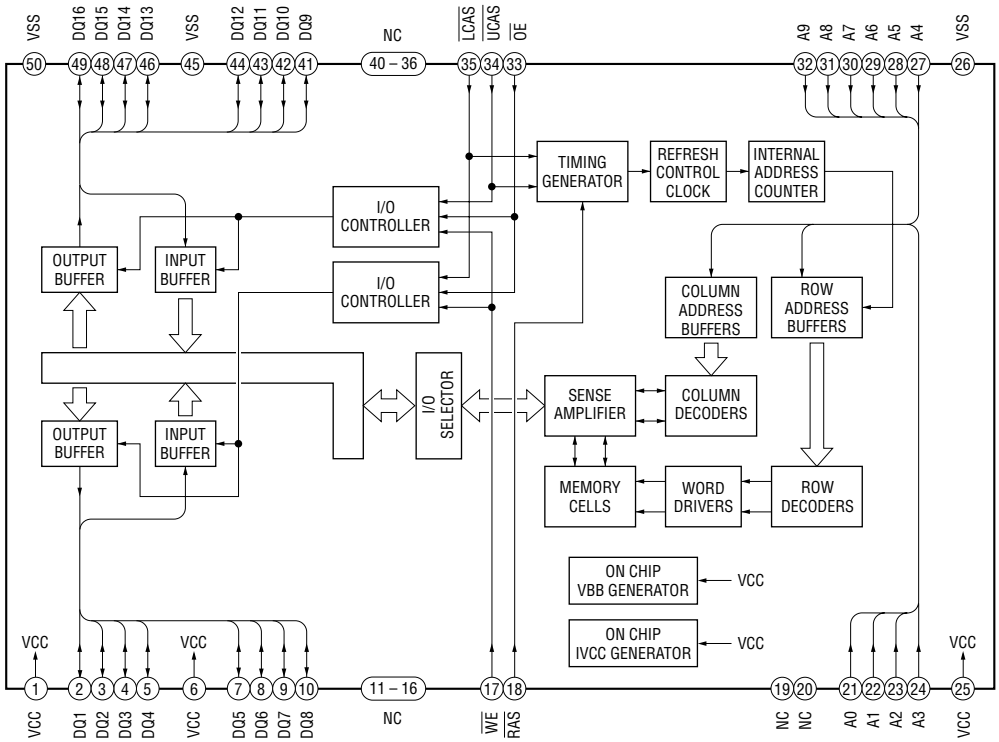
IC608 AK4382AVT-E2



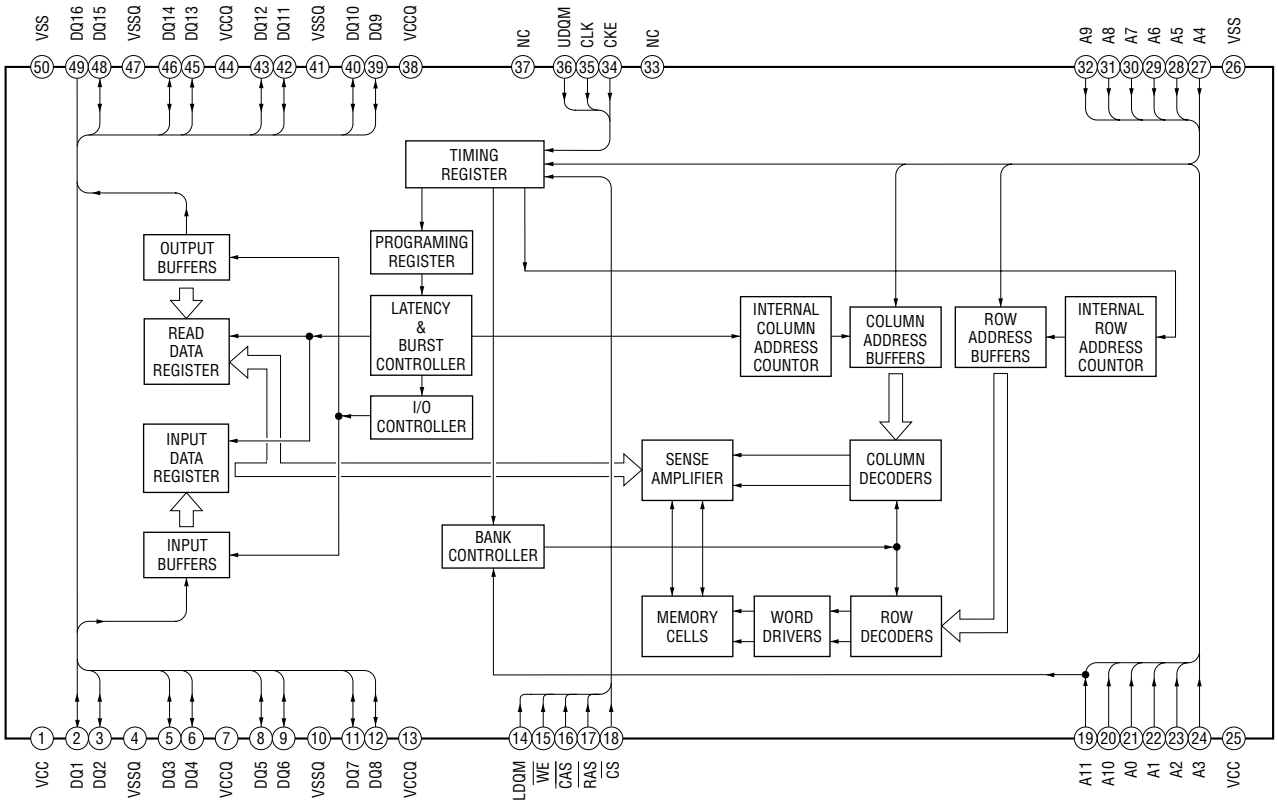
IC612 CXD9633Q



IC706 MSM51V18165F-60TSKR1

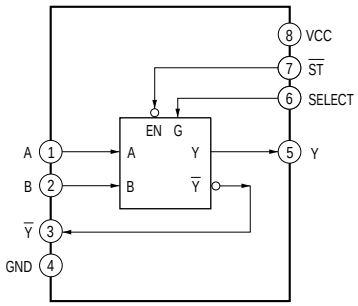


IC808 MSM56V16160F-8TK7R1

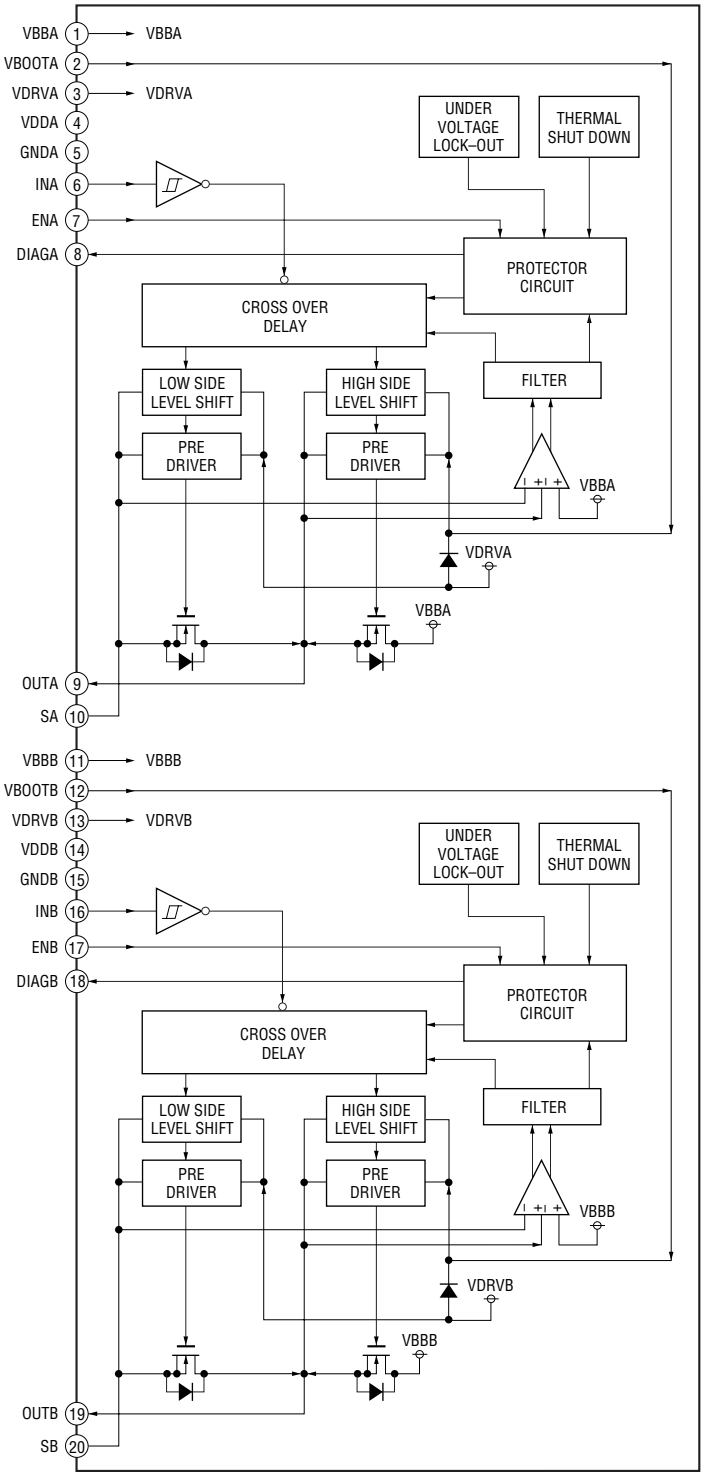

VSS DQ16 DQ15 VSSQ DQ14 DQ13 VCCQ DQ12 DQ11 VSSQ DQ10 DQ9 VCCQ
50 49 48 47 46 45 44 43 42 41 40 39 38
NC UDQM CLK CKE NC
37 36 35 34 33
A9 A8 A7 A6 A5 A4 VSS
32 31 30 29 28 27 26
TIMING REGISTER
OUTPUT BUFFERS
PROGRAMING REGISTER
READ DATA REGISTER
LATENCY & BURST CONTROLLER
INTERNAL COLUMN ADDRESS COUNTOR
COLUMN ADDRESS BUFFERS
ROW ADDRESS BUFFERS
INTERNAL ROW ADDRESS COUNTOR
I/O CONTROLLER
INPUT DATA REGISTER
SENSE AMPLIFIER
COLUMN DECODERS
INPUT BUFFERS
BANK CONTROLLER
MEMORY CELLS
WORD DRIVERS
ROW DECODERS
1 2 3 4 5 6 7 8 9 10 11 12 13
14 15 16 17 18
19 20 21 22 23 24 25
VCC DQ1 DQ2 VSSQ DQ3 DQ4 VCCQ DQ5 DQ6 VSSQ DQ7 DQ8 VCCQ
LDQM WE CAS RAS CS
A11 A10 A0 A1 A2 A3 VCC

– AMP Board –

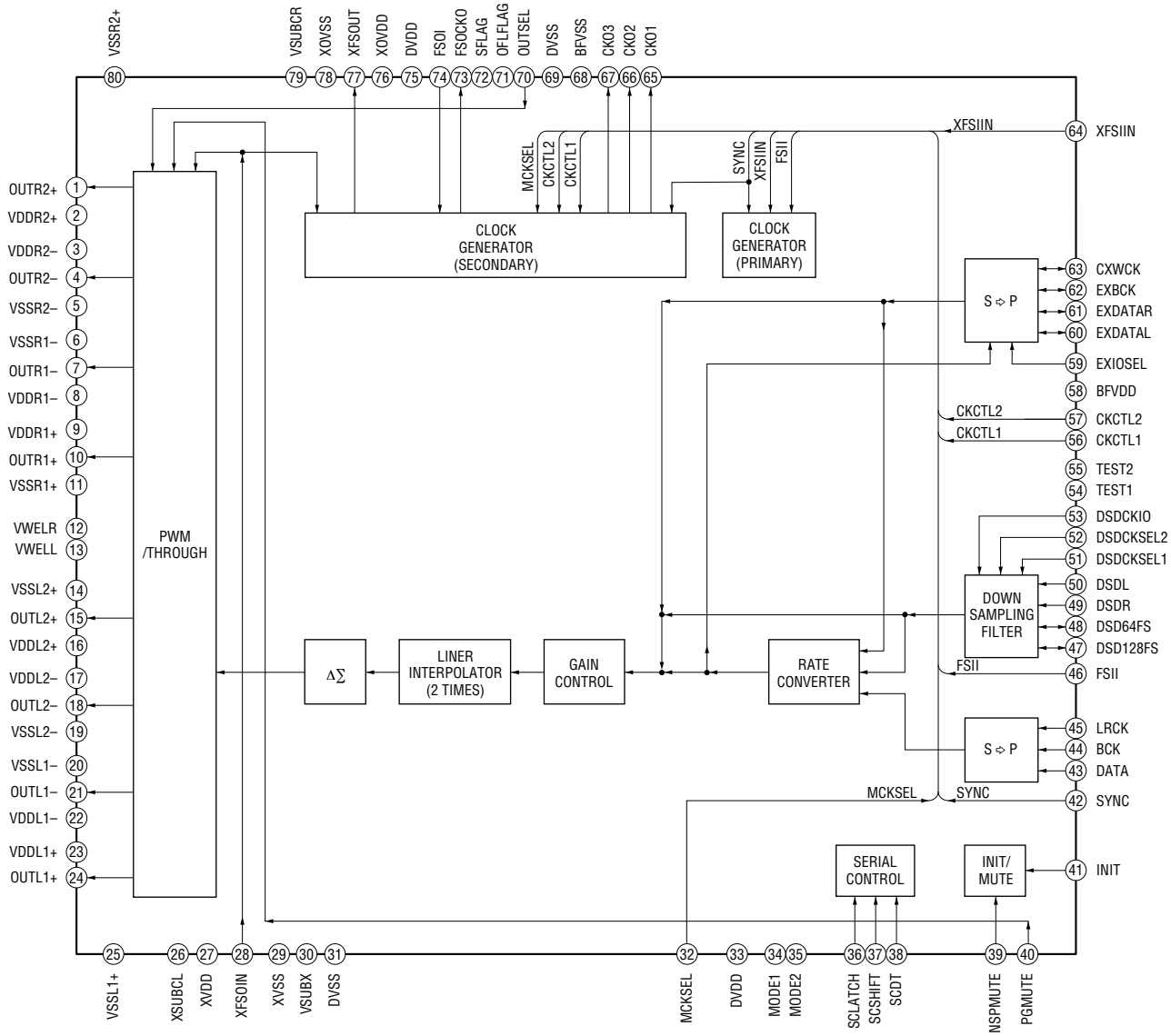
IC814 TC7WH157FK (TE85R)



IC301, 304, 306, 307, 309, 311 CXD9702L

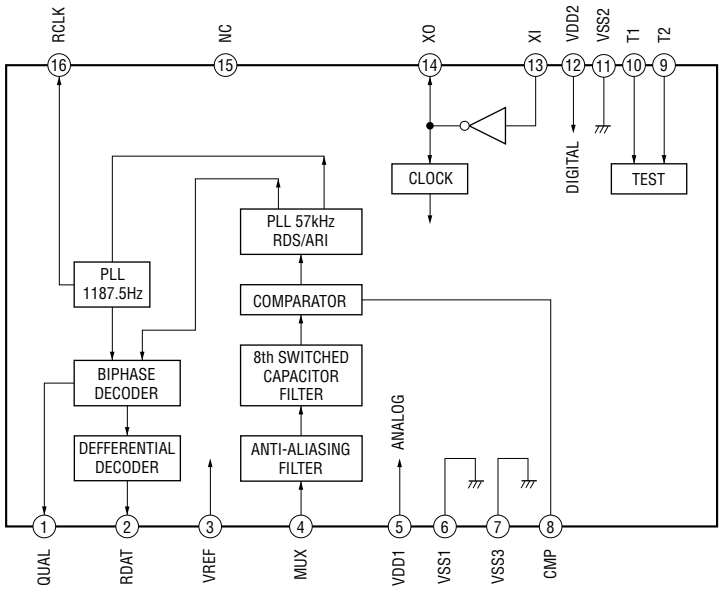


IC305, 308, 310 CXD9634Q

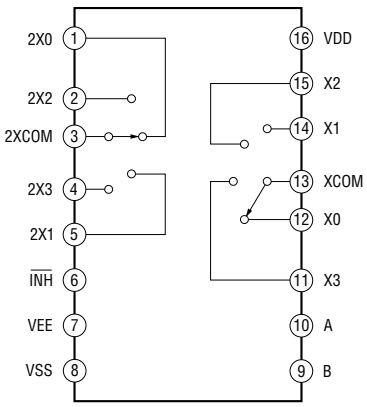


– I/O Board –

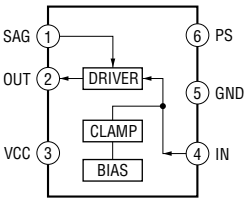
IC201 BU1924F-E2 (AEP, UK, Russian)



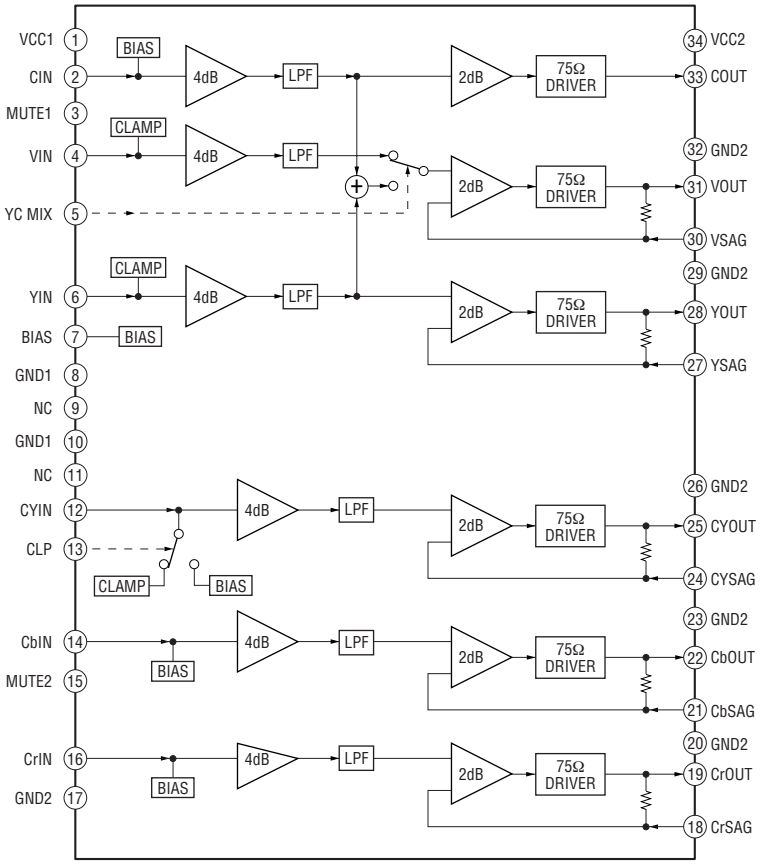
IC202 MC14052 BDR2



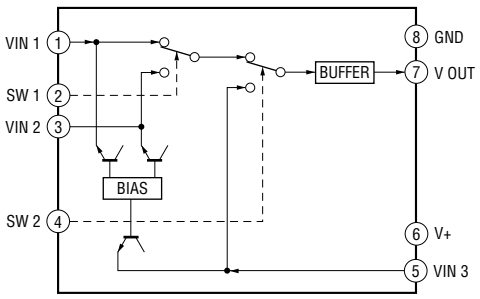
IC206 MM1510



IC208 MM1568

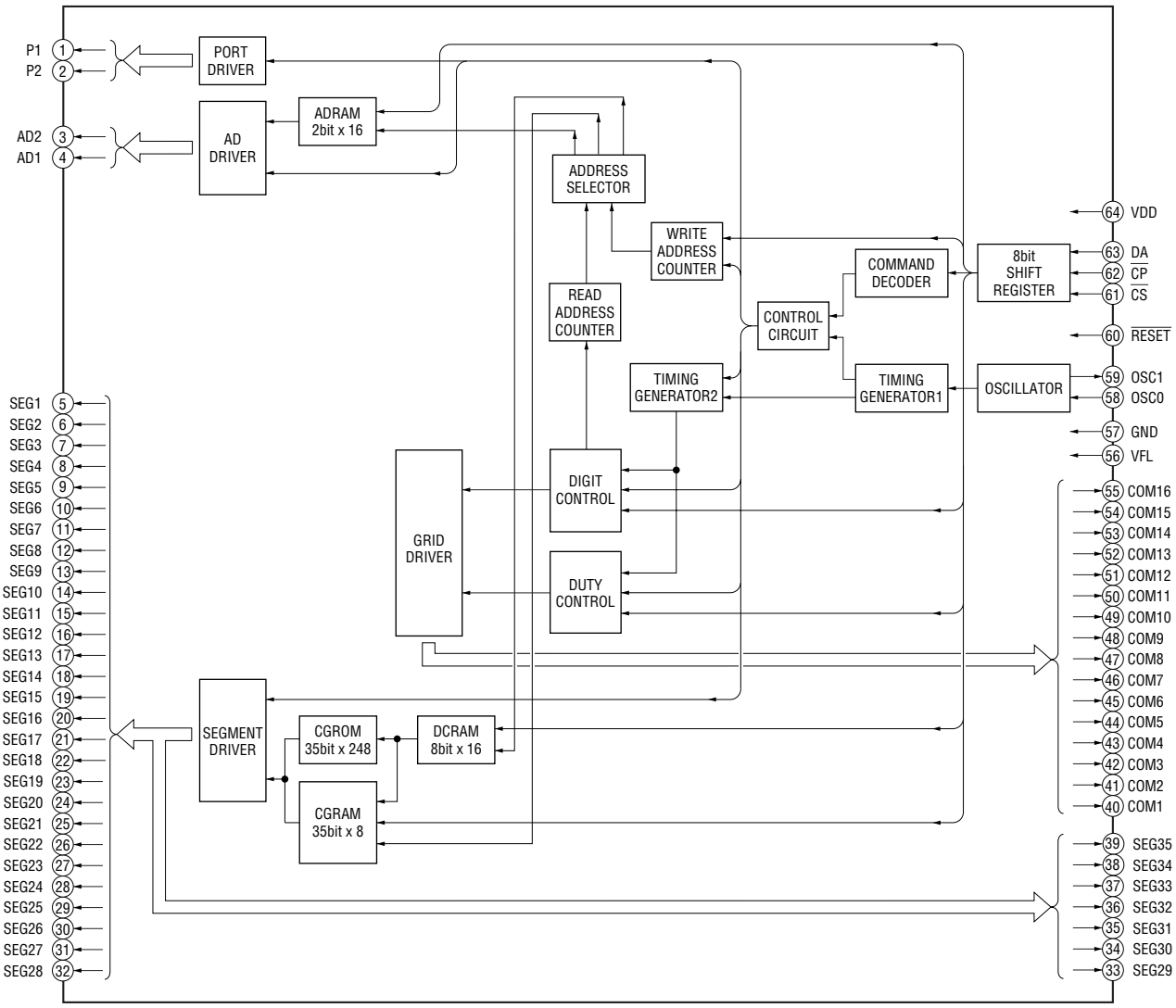


IC207 NJM2235V (TE2)



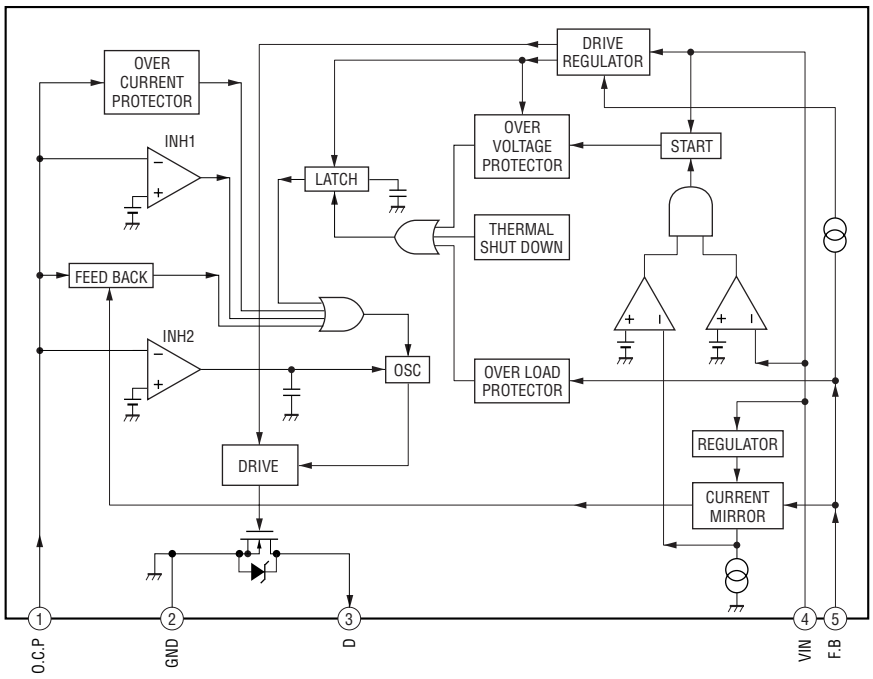
– FL Board –

IC802 MSM9202-05GS-KDR1

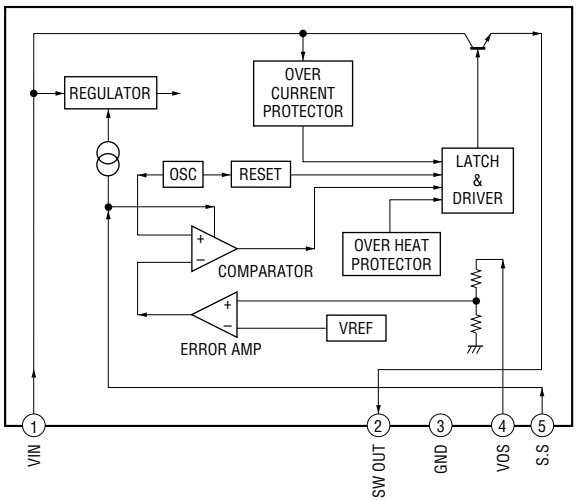


– POWER Board –

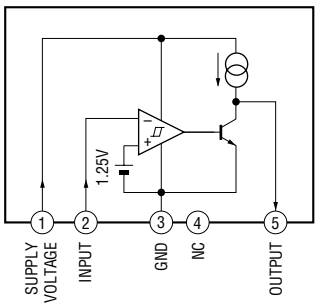
IC901 STR-F6238 (Mexican, Taiwan), STR-F6267D (Except Mexican, Taiwan)



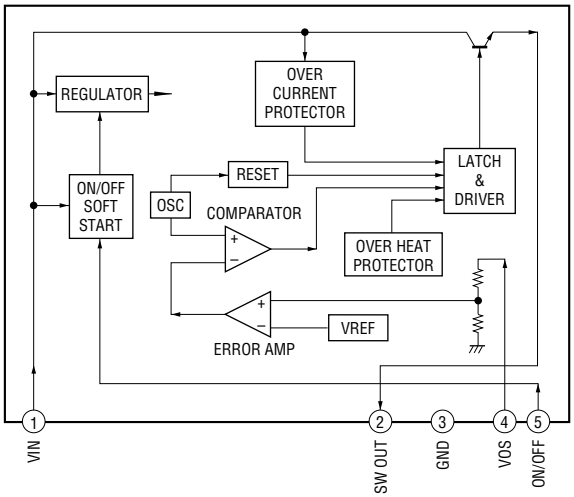
IC903 SI-8050S-LF1101



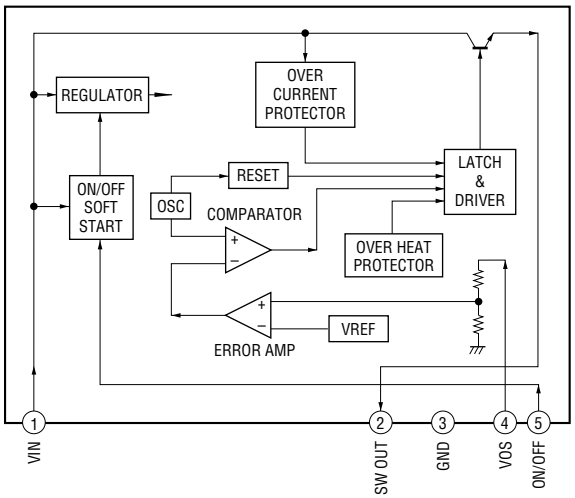
IC904 M51945BL



IC906 SI-8033JF



IC908 SI-8120JF



7-40. IC PIN FUNCTION DESCRIPTION

• DVD BOARD IC301 CXP973064-224R (MACHANISM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	EEP SO	O	Not used
2	SDEN	O	Serial data enable signal output to DVD/CD RF amplifier
3	DOCTRL/ ISBTEST	O	Digital out on/off control signal output to the digital signal processor "L": digital out off, "H": digital out on
4	EEP WC	O	Not used
5	EEP SI	I/O	Two-way data bus with the EEPROM
6	EEP RDY	I	EEPROM ready signal input from the DVD decoder
7	FCS JMP 1	O	Focus jump 1 signal output to the motor/coil driver
8	FCS JMP 2	O	Focus jump 2 signal output to the motor/coil driver
9	SENS CD	I	Internal status (SENSE) signal input from the digital signal processor
10	LOAD+	O	Loading motor drive signal (loading in direction) output terminal Not used
11	LOAD–	O	Loading motor drive signal (loading out direction) output terminal Not used
12	XCS DVD	O	Chip select signal output to the DVD decoder
13	VSS	—	Ground terminal (digital system)
14 to 21	D0 to D7	I/O	Two-way data bus with the DVD decoder
22	INIT0 DVD	I	Interrupt signal input from the DVD decoder
23	INIT1 DVD	I	Interrupt signal input from the DVD decoder
24	SCK DSD	O	Serial data transfer clock signal output to the DSD decoder
25	XRST DVD	O	Reset signal output to the DVD decoder "L": reset
26	SCOR	I	Subcode sync (S0+S1) detection signal input from the digital signal processor
27	LAT CD	O	Serial data latch pulse signal output to the digital signal processor
28	LD ON	O	Laser diode on/off control signal output to the DVD/CD RF amplifier "L": laser diode off, "H": laser diode on
29	MIRR	I	Mirror signal input from the digital signal processor
30	COUT CD	I	Numbers of track counted signal input from the digital signal processor
31	INLIM	I	Detection signal input from limit in switch The optical pick-up is inner position when "H"
32	CS ZIVA	O	Chip select signal output to the DVD system processor
33	SI ZIVA	I	Serial data input from the DVD system processor
34	SO ZIVA	O	Serial data output to the DVD system processor
35	SCK ZIVA	O	Serial data transfer clock signal output to the DVD system processor
36	DRVIRQ	O	Interrupt request signal output to the DVD system processor
37	DRVRDY	O	Ready signal output to the DVD system processor
38	$\overline{\text{RST}}$	I	System reset signal input from the DVD system processor "L": reset
39	VSS	—	Ground terminal (digital system)
40	XTAL	I	System clock input terminal (20 MHz)
41	EXTAL	O	System clock output terminal (20 MHz)
42	VDD	—	Power supply terminal (+3.3V) (digital system)
43, 44	SLED A, SLED B	O	Sled motor drive signal output
45	JIT OFFSET	O	Output terminal for offset adjustment of APEO (⑩⑨pin of DVD decoder)
46	SDOUT DSD	O	Serial data output to the DSD decoder
47	SDIN DSD	I	Serial data input from the DSD decoder
48	$\overline{\text{READY DSD}}$	I	Ready signal input from the DSD decoder "L": ready
49	DATA CD	O	Serial data output to the digital signal processor
50	CLOK CD	O	Serial data transfer clock signal output to the digital signal processor
51	XMSLAT	O	Serial data latch pulse signal output to the DSD decoder
52	SQSO	I	Subcode Q data input from the digital signal processor

Pin No.	Pin Name	I/O	Description
53	MUTE DSD	O	Muting on/off control signal output to the DSD decoder "H": muting on
54	SQCK	O	Subcode Q data reading clock signal output to the digital signal processor
55	VSS	—	Ground terminal (digital system)
56	TRAY IN	I	Disc tray in detection signal input terminal Not used
57	TRAY OUT	I	Disc tray out detection signal input terminal Not used
58	GFS DVD	I	Guard frame sync signal input from the DVD decoder
59	MUTE CD	O	Muting on/off control signal output to the digital signal processor "H": muting on
60	MUTE 2D	O	Muting on/off control signal output to the motor/coil driver "H": muting on
61	SLED	I	Sled motor servo drive PWM signal input terminal
62	FG	I	Spindle motor control signal input
63	SP ON	O	Muting on/off control signal output to the motor/coil driver "H": muting on
64	JIT	I	Jitter signal input
65	TE	I	Tracking error signal input from the DVD/CD RF amplifier
66	PI	I	Pull in signal input from the DVD/CD RF amplifier
67	FE	I	Focus error signal input from the DVD/CD RF amplifier
68	AVSS	—	Ground terminal (for A/D converter)
69	AVREF	I	Reference voltage input terminal (for A/D converter)
70	AVDD	—	Power supply terminal (+3.3V) (for A/D converter)
71	GFS CD	I	Guard frame sync signal input from the digital signal processor
72	SCLK CD	O	SENSE serial data reading clock signal output to the digital signal processor
73	TSD	O	Thermal shut down signal output to the motor/coil driver
74	FOK CD	I	Focus OK signal input from the digital signal processor
75	LOCK CD	I	GFS is sampled by 460 Hz "H" input when GFS is "H"
76	LDSEL	O	Laser diode selection signal output
77	SACD/$\overline{\text{DVD}}$	O	SACD/DVD selection signal output "L": DVD, "H": SACD
78	I2C SIO	I/O	Communication data bus with the DVD system processor and system controller
79	I2C SCL	I/O	Communication data reading clock signal input or transfer clock signal output with the DVD system processor and system controller
80	RXD	I	Serial data input from the RS-232C (for check)
81	TXD	O	Serial data output to the RS-232C (for check)
82	SDCLK RF	O	Serial data transfer clock signal output to the DVD/CD RF amplifier
83	SDATA RF	I/O	Two-way data bus with the DVD/CD RF amplifier
84	XWR	O	Write strobe signal output to the DVD decoder
85	XRD	O	Read strobe signal output to the DVD decoder
86	(PWE)	—	Not used
87	VDD	—	Power supply terminal (+3.3V) (digital system)
88	VSS	—	Ground terminal (digital system)
89 to 96	A0 to A7	O	Address signal output to the DVD decoder
97	DSAVE	O	Motor/coil driver power save control signal output terminal Not used
98	XDRST	O	Reset signal output to the digital signal processor and DSD decoder "L": reset
99	EEP WP	O	Write protect signal output to the EEPROM
100	EEP CLK	O	Clock signal output to the EEPROM

• **DVD BOARD IC401 CXD3068Q (DIGITAL SIGNAL PROCESSOR, DIGITAL SERVO PROCESSOR)**

Pin No.	Pin Name	I/O	Description
1	DVDD0	—	Power supply terminal (+3.3V) (digital system)
2	XRST	I	Reset signal input from the mechanism controller "L": reset
3	MUTE	I	Muting on/off control signal input from the mechanism controller "H": muting on
4	DATA	I	Serial data input from the mechanism controller
5	XLAT	I	Serial data latch pulse signal input from the mechanism controller
6	CLOK	I	Serial data transfer clock signal input from the mechanism controller
7	SENS	O	Internal status (SENSE) signal output to the mechanism controller
8	SCLK	I	SENSE serial data reading clock signal input from the mechanism controller
9	ATSK	I/O	Input/output terminal for anti-shock Not used
10	WFCK	O	Write frame clock signal output to the DVD decoder
11	RFCK	O	RFCK signal output terminal Not used
12	XPCK	O	XPCK signal output terminal Not used
13	GFS	O	Guard frame sync signal output to the mechanism controller
14	C2PO	O	C2 pointer signal output to the DVD decoder
15	SCOR	O	Subcode sync (S0+S1) detection signal output to the DVD decoder and mechanism controller
16	C4M	O	4.2336 MHz clock signal output terminal Not used
17	WDCK	O	Guard subcode sync (S0+S1) detection signal output to the DVD decoder
18	DVSS0	—	Ground terminal (digital system)
19	COUT	O	Numbers of track counted signal output to the mechanism controller
20	MIRR	O	Mirror signal output to the mechanism controller
21	DFCT	I/O	Defect signal input/output terminal Not used
22	FOK	O	Focus OK signal output to the mechanism controller
23	PWMI	I	Spindle motor external control signal input terminal Not used
24	LOCK	O	GFS is sampled by 460 Hz "H" output when GFS is "H"
25	MDP	O	Spindle motor servo drive signal output to the DVD decoder
26	SSTP	I	Detection signal input from limit in switch The optical pick-up is inner position when "H"
27	FSTO	O	2/3 divider output terminal Not used
28	DVDD1	—	Power supply terminal (+3.3V) (digital system)
29	SFDR	O	Sled servo drive PWM signal (+) output
30	SRDR	O	Sled servo drive PWM signal (–) output
31	TFDR	O	Tracking servo drive PWM signal (+) output
32	TRDR	O	Tracking servo drive PWM signal (–) output
33	FFDR	O	Focus servo drive PWM signal (+) output
34	FRDR	O	Focus servo drive PWM signal (–) output
35	DVSS1	—	Ground terminal (digital system)
36	TEST	I	Input terminal for the test
37	TES1	I	Input terminal for the test
38	VC	I	Middle point voltage (+1.65V) input terminal
39	FE	I	Focus error signal input from the DVD/CD RF amplifier
40	SE	I	Sled error signal input from the DVD/CD RF amplifier
41	TE	I	Tracking error signal input from the DVD/CD RF amplifier
42	CE	I	Middle point servo analog signal input
43	RFDC	I	RF signal input from the DVD/CD RF amplifier
44	ADIO	O	Output terminal for the test Not used
45	AVSS0	—	Ground terminal (analog system)
46	IGEN	I	Stabilized current input for operational amplifiers

Pin No.	Pin Name	I/O	Description
47	AVDD0	—	Power supply terminal (+3.3V) (analog system)
48	ASYO	O	EFM full-swing output terminal
49	ASYI	I	Asymmetry comparator voltage input terminal
50	RFAC	I	EFM signal input from the DVD/CD RF amplifier
51	AVSS1	—	Ground terminal (analog system)
52	CLTV	I	Internal VCO control voltage input terminal
53	FILO	O	Filter output for master PLL
54	FILI	I	Filter input for master PLL
55	PCO	O	Charge pump output for master PLL
56	AVDD1	—	Power supply terminal (+3.3V) (analog system)
57	BIAS	I	Asymmetry circuit constant current input terminal
58	VCTL	I	VCO control voltage input terminal for the wideband EFM PLL Not used
59	V16M	O	VCO oscillation output terminal for the wideband EFM PLL Not used
60	VPCO	O	Charge pump output terminal for the wideband EFM PLL Not used
61	DVDD2	—	Power supply terminal (+3.3V) (digital system)
62	ASYE	I	Asymmetry circuit on/off control signal input terminal "L": off, "H": on Not used
63	MD2	I	Digital out on/off control signal input from the mechanism controller "L": digital out off, "H": digital out on
64	DOUT	O	Digital audio signal output to the digital audio interface IC
65	LRCK	O	L/R sampling clock signal (44.1 kHz) output to the DVD decoder
66	PCMD	O	Serial data output to the DVD decoder
67	BCK	O	Bit clock signal (2.8224 MHz) output to the DVD decoder
68	EMPH	O	"L" is output when playback disc is emphasis off "H" is output when playback disc is emphasis on Not used
69	XTSL	I	Input terminal for the system clock frequency setting "L": 16.9344 MHz, "H": 33.8688MHz Fixed at "H" in this set
70	DVSS2	—	Ground terminal (digital system)
71	XTAI	I	System clock input terminal (33.8688 MHz)
72	XTAO	O	System clock output terminal (33.8688 MHz) Not used
73	SOUT	O	Serial data output terminal Not used
74	SOCK	O	Serial data reading clock signal output terminal Not used
75	XOLT	O	Serial data latch pulse signal output terminal Not used
76	SQSO	O	Subcode Q data output to the mechanism controller
77	SQCK	I	Subcode Q data reading clock signal input from the mechanism controller
78	SCSY	I	Input terminal for resynchronism of guard subcode sync (S0+S1) Not used
79	SBSO	O	Subcode serial data output to the DVD decoder
80	EXCK	I	Subcode serial data reading clock signal input to the DVD decoder

• **DVD BOARD IC607 CXD9617R (DIGITAL AUDIO SIGNAL PROCESSOR)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	XRST	I	Reset signal input from the system controller "L": reset
3	EXTIN	I	Master clock signal input terminal Not used
4	FS2	I	Sampling frequency selection signal input terminal Not used
5	VDDI	—	Power supply terminal (+2.6V)
6	FS1	I	Sampling frequency selection signal input terminal Not used
7	PLOCK	O	Internal PLL lock signal output terminal Not used
8	VSS	—	Ground terminal
9	MCLK1	I	System clock signal input terminal (13.5 MHz)
10	VDDI	—	Power supply terminal (+2.6V)
11	VSS	—	Ground terminal
12	MCLK2	O	System clock signal output terminal (13.5 MHz)
13	MS	I	Master/slave selection signal input terminal "L": slave, "H": master (fixed at "L" in this set)
14	SCKOUT	O	Internal system clock signal output to the D/A converter and stream processor
15	LRCKI1	I	L/R sampling clock signal (44.1 kHz) input from the digital audio processor
16	VDDE	—	Power supply terminal (+3.3V)
17	BCKI1	I	Bit clock signal (2.8224 MHz) input from the digital audio processor
18	SDI1	I	Front L-ch and R-ch audio serial data input from the digital audio processor
19	LRCKO	O	L/R sampling clock signal (44.1 kHz) output to the D/A converter and stream processor
20	BCKO	O	Bit clock signal (2.8224 MHz) output to the D/A converter and stream processor
21	VSS	—	Ground terminal
22	KFSIO	I	Audio clock signal (11.2896 MHz) input from the digital audio processor
23	SDO1	O	Front L-ch and R-ch audio serial data output to the stream processor
24	SDO2	O	Center and woofer audio serial data output to the stream processor
25	SDO3	O	Rear L-ch and R-ch audio serial data output to the stream processor
26	SDO4	O	Audio serial data output to the D/A converter
27	SPDIF	O	S/PDIF signal output terminal Not used
28	LRCKI2	I	L/R sampling clock signal (44.1 kHz) input from the A/D converter
29	BCKI2	I	Bit clock signal (2.8224 MHz) input from the A/D converter
30	SDI2	I	Center and woofer audio serial data input from the digital audio processor
31	VSS	—	Ground terminal
32	HACN	O	Acknowledge signal output to the system controller
33	HDIN	I	Write data input from the system controller
34	HCLK	I	Clock signal input from the system controller
35	HDOUT	O	Read data output to the system controller
36	HCS	I	Chip select signal input from the system controller
37	SDCLK	O	Clock signal output terminal Not used
38	CLKEN	O	Clock enable signal output terminal Not used
39	RAS	O	Row address strobe signal output terminal Not used
40	VDDI	—	Power supply terminal (+2.6V)
41	VSS	—	Ground terminal
42	CAS	O	Column address strobe signal output terminal Not used
43	DQM	O	Output terminal of data input/output mask Not used
44	CS0	O	Chip select signal output to the S-RAM
45	WE0	O	Write enable signal output to the S-RAM

Pin No.	Pin Name	I/O	Description
46	VDDE	—	Power supply terminal (+3.3V)
47	WMD1	I	S-RAM wait mode setting terminal Fixed at “H” in this set
48	VSS	—	Ground terminal
49	WMD0	I	S-RAM wait mode setting terminal Fixed at “L” in this set
50	PAGE2	O	Page selection signal output terminal Not used
51	VSS	—	Ground terminal
52, 53	PAGE1, PAGE0	O	Page selection signal output terminal Not used
54	BOOT	I	Boot mode control signal input terminal Not used
55	BTACT	O	Boot mode state display signal output terminal Not used
56	BST	I	Boot trap signal input from the system controller
57	MOD1	I	PLL input frequency selection signal input terminal “L”: 384fs, “H”: 256fs (fixed at “H” in this set)
58	MOD0	I	Mode setting terminal “L”: single chip mode, “H”: use prohibition (fixed at “L” in this set)
59	EXLOCK	I	PLL lock error and data error flag input from the digital audio interface IC
60	VDDI	—	Power supply terminal (+2.6V)
61	VSS	—	Ground terminal
62, 63	A17, A16	O	Address signal output terminal Not used
64 to 66	A15 to A13	O	Address signal output to the S-RAM
67	GP10	O	L/R sampling clock signal (44.1 kHz) output to the D/A converter and stream processor
68	GP9	O	Decode signal output to the system controller
69	GP8	I	Bit 1 input terminal of channel status from the digital audio interface IC
70	VDDI	—	Power supply terminal (+2.6V)
71	VSS	—	Ground terminal
72 to 75	D15 to D12	I/O	Two-way data bus with the S-RAM
76	VDDE	—	Power supply terminal (+3.3V)
77 to 80	D11 to D8	I/O	Two-way data bus with the S-RAM
81	VSS	—	Ground terminal
82 to 85	A9, A12 to A10	O	Address signal output to the S-RAM
86	TDO	O	Simple emulation data output terminal Not used
87	TMS	I	Simple emulation data input start/end detection signal input terminal Not used
88	XTRST	I	Simple emulation asychronous break input terminal Not used
89	TCK	I	Simple emulation clock signal input terminal Not used
90	TDI	I	Simple emulation data input terminal Not used
91	VSS	—	Ground terminal
92 to 97	A8 to A3	O	Address signal output to the S-RAM
98, 99	D7, D6	I/O	Two-way data bus with the S-RAM
100	VDDI	—	Power supply terminal (+2.6V)
101	VSS	—	Ground terminal
102 to 105	D5 to D2	I/O	Two-way data bus with the S-RAM
106	VDDE	—	Power supply terminal (+3.3V)
107, 108	D1, D0	I/O	Two-way data bus with the S-RAM
109, 110	A2, A1	O	Address signal output to the S-RAM
111	VSS	—	Ground terminal
112	A0	O	Address signal output to the S-RAM
113	$\overline{\text{PM}}$	I	PLL reset signal input from the system controller “L”: reset
114	SDI3	I	Rear L-ch and R-ch audio serial data input from the digital audio processor

Pin No.	Pin Name	I/O	Description
115	SDI4	I	Audio serial data input terminal Not used
116	SYNC	I	Synchronous/asychronous selection signal input terminal “L”: Synchronous, “H”: asynchronous (fixed at “H” in this set)
117 to 119	VSS	—	Ground terminal
120	VDDI	—	Power supply terminal (+2.6V)

• **DVD BOARD IC701 CXD1882R (DVD DECODER)**

Pin No.	Pin Name	I/O	Description
1, 2	D5, D6	I/O	Two-way data bus with the mechanism controller
3	VSS	—	Ground terminal (digital system)
4	D7	I/O	Two-way data bus with the mechanism controller
5	A0	I	Address signal input from the mechanism controller
6	VDD	—	Power supply terminal (+3.3V) (digital system)
7	A1	I	Address signal input from the mechanism controller
8	VDD5V	—	Power supply terminal (+5V)
9 to 14	A2 to A7	I	Address signal input from the mechanism controller
15	VSS	—	Ground terminal (digital system)
16	XWAIT	O	Wait signal output terminal Not used
17	XRD	I	Read strobe signal input from the mechanism controller
18	XWR	I	Write strobe signal input from the mechanism controller
19	XCS	I	Chip select signal input from the mechanism controller
20, 21	XINT0, XINT1	O	Interrupt signal output to the mechanism controller
22	VDD	—	Power supply terminal (+3.3V) (digital system)
23	XHRS	I	Not used
24	HDB7	O	Stream data signal output to the DSD decoder and DVD system processor
25	VSS	—	Ground terminal (digital system)
26	HDB8	O	Error flag signal output to the DSD decoder and DVD system processor
27	HDB6	O	Stream data signal output to the DSD decoder and DVD system processor
28	VDDS	—	Power supply terminal (+5V) (digital system)
29	HDB9	O	Not used
30	HDB5	O	Stream data signal output to the DSD decoder and DVD system processor
31	HDBA	O	Not used
32	HDB4	O	Stream data signal output to the DSD decoder and DVD system processor
33	VSS	—	Ground terminal (digital system)
34	HDBB	O	Not used
35	HDB3	O	Stream data signal output to the DSD decoder and DVD system processor
36	VDD	—	Power supply terminal (+3.3V) (digital system)
37	HDBC	O	Not used
38	VDDS	—	Power supply terminal (+5V) (digital system)
39	HDB2	O	Stream data signal output to the DSD decoder and DVD system processor
40	HDBD	O	Not used
41	HDB1	O	Stream data signal output to the DSD decoder and DVD system processor
42	VSS	—	Ground terminal (digital system)
43	HDBE	O	Not used
44	HDB0	O	Stream data signal output to the DSD decoder and DVD system processor
45	HDBF	O	Not used
46	XSAK	O	Serial data effect flag signal output to the DSD decoder and DVD system processor
47	VDDS	—	Power supply terminal (+5V) (digital system)
48	XDCK	O	Serial data transfer clock signal output to the DSD decoder and DVD system processor
49	XSHD	O	Header flag signal output to the DSD decoder
50	VDD	—	Power supply terminal (+3.3V) (digital system)
51	REDY	O	Not used
52	VSS	—	Ground terminal (digital system)

Pin No.	Pin Name	I/O	Description
53	XSRQ	I	DVD mode: Serial data request signal input from the DVD system processor SACD mode: Serial data request signal input from the DSD decoder
54	HINT	O	Not used
55	XS16	O	Not used
56	HA1	I	Not used
57	XPDI	I/O	Not used
58	VDDS	—	Power supply terminal (+5V) (digital system)
59, 60	HA0, HA2	I	Not used
61	VSS	—	Ground terminal (digital system)
62, 63	HCS0, HCS1	I	Not used
64	VDD	—	Power supply terminal (+3.3V) (digital system)
65	DASP	I/O	Not used
66 to 69	MDB0 to MDB3	I/O	Two-way data bus with the D-RAM
70	VSS	—	Ground terminal (digital system)
71	MDB4	I/O	Two-way data bus with the D-RAM
72	VDD5V	—	Power supply terminal (+5V)
73 to 75	MDB5 to MDB7	I/O	Two-way data bus with the D-RAM
76	XMWR	O	Write enable signal output to the D-RAM
77	VDD	—	Power supply terminal (+3.3V) (digital system)
78	XRAS	O	Row address strobe signal output to the D-RAM
79, 80	MA0, MA1	O	Address signal output to the D-RAM
81	VSS	—	Ground terminal (digital system)
82 to 87	MA2 to MA7	O	Address signal output to the D-RAM
88	VDD	—	Power supply terminal (+3.3V) (digital system)
89	MA8	O	Address signal output to the D-RAM
90	VSS	—	Ground terminal (digital system)
91	MA9	O	Address signal output to the D-RAM
92	MNT1	O	EEPROM ready signal output to the mechanism controller
93	MNT2	O	Operation clock signal output for PSP physical disc mark detection to DSD decoder
94	XMOE	O	Output enable signal output to the D-RAM
95	XCAS	O	Column address strobe signal output to the D-RAM
96, 97	MDB8, MDB9	I/O	Two-way data bus with the D-RAM
98	VSS	—	Ground terminal (digital system)
99	MDBA	I/O	Two-way data bus with the D-RAM
100	VDD	—	Power supply terminal (+3.3V) (digital system)
101, 102	MDBB, MDBC	I/O	Two-way data bus with the D-RAM
103	VDD5V	—	Power supply terminal (+5V)
104 to 106	MDBD to MDBF	I/O	Two-way data bus with the D-RAM
107	GFS	O	Guard frame sync signal output to the mechanism controller
108	VSS	—	Ground terminal (digital system)
109	APEO	O	Absolute phase error signal output
110	VDD	—	Power supply terminal (+3.3V) (digital system)
111	DASYO	O	RF binary signal output
112	GNDA5	—	Ground terminal (analog system)
113, 114	ASF1, AFS2	—	Filter connected terminal for selection the constant asymmetry compensation
115	DASYI	I	Analog signal input after integrated from the RF binary signal

Pin No.	Pin Name	I/O	Description
116	RFDCC	I	Input terminal for adjusting DC cut high-pass filter for RF signal Not used
117	RFIN	I	RF signal input from the DVD/CD RF amplifier
118, 119	VCCA5, VCCA4	—	Power supply terminal (+3.3V) (analog system)
120	VCOR1	—	VCO oscillating range setting resistor connected terminal
121	VCOIN	I	VCO input terminal
122, 123	GNDA4, GNDA3	—	Ground terminal (analog system)
124	LPF5	O	Signal output from the operation amplifier from PLL loop filter
125	VC1	I	Middle point voltage (+1.65V) input terminal
126, 127	LPF2, LPF1	I	Inverted signal input to the operation amplifier from PLL loop filter
128, 129	VCCA3, VCCA2	—	Power supply terminal (+3.3V) (analog system)
130	PD0	O	Signal output from the charge pump for phase comparator
131	PDHVCC	I	Middle point voltage input terminal for RF PLL
132	FDO	O	Signal output from the charge pump for frequency comparator
133, 134	GNDA2, GNDA1	—	Ground terminal (analog system)
135	SPO	O	Spindle motor control signal output
136	VC2	I	Middle point voltage (+1.65V) input terminal
137	MDIN2	I	Spindle motor servo drive signal input
138	MDIN1	I	MDP input terminal
139	VCCA1	—	Power supply terminal (+3.3V) (analog system)
140	CLVS	O	Control signal output for selection the spindle control filter constant at CLVS
141	VSS	—	Ground terminal (digital system)
142	MDSOUT	O	Frequency error output terminal of internal CLV circuit
143	VDD	—	Power supply terminal (+3.3V) (digital system)
144	MDPOUT	O	Phase error output terminal of internal CLV circuit
145	DEFECT	I	Defect signal input terminal Not used
146	GSCOR	I	Guard subcode sync (S0+S1) detection signal input from the digital signal processor
147	EXCK	O	Subcode serial data reading clock signal output to the digital signal processor
148	SBIN	I	Subcode serial data input from the digital signal processor
149	VSS	—	Ground terminal (digital system)
150	SCOR	I	Subcode sync (S0+S1) detection signal input from the digital signal processor
151	WFCK	I	Write frame clock signal input from the digital signal processor
152	VDD5V	—	Power supply terminal (+5V)
153	XRCI	I	RAM overflow signal input terminal Not used
154	VDDS	—	Power supply terminal (+5V) (digital system)
155	C2PO	I	C2 pointer signal input from the digital signal processor
156	VDD	—	Power supply terminal (+3.3V) (digital system)
157	DBCK	O	Bit clock signal (2.8224 MHz) output terminal Not used
158	BCLK	I	Bit clock signal (2.8224 MHz) input from the digital signal processor
159	DDAT	O	PCM data output terminal Not used
160	MDAT	I	Serial data input from the digital signal processor
161	VSS	—	Ground terminal (digital system)
162	DLRC	O	L/R sampling clock signal (44.1 kHz) output terminal Not used
163	LRCK	I	L/R sampling clock signal (44.1 kHz) input from the digital signal processor
164	XRST	I	Reset signal input from the mechanism controller “L”: reset
165	IFS0	I	Interface selection signal input terminal Fixed at “L” in this set
166	IFS1	I	Interface selection signal input terminal Fixed at “H” in this set

Pin No.	Pin Name	I/O	Description
167	XTAL	I	33.8688 MHz clock signal input terminal
168	VSS	—	Ground terminal (digital system)
169	XTL2	O	System clock output terminal (33.8688 MHz)
170	XTL1	I	System clock input terminal (33.8688 MHz)
171	VDD	—	Power supply terminal (+3.3V) (digital system)
172 to 176	D0 to D4	I/O	Two-way data bus with the mechanism controller

• **DVD BOARD IC801 CXD2752R (DSD DECODER)**

Pin No.	Pin Name	I/O	Description
1	VSCA0	—	Ground terminal (for core)
2	XMSLAT	I	Serial data latch pulse signal input from the mechanism controller
3	MSCK	I	Serial data transfer clock signal input from the mechanism controller
4	MSDATI	I	Serial data input from the mechanism controller
5	VDCA0	—	Power supply terminal (+2.5V) (for core)
6	MSDATO	O	Serial data output to the mechanism controller
7	$\overline{\text{MSREADY}}$	O	Ready signal output to the mechanism controller “L”: ready
8	XMSDOE	O	Serial data output enable signal output terminal Not used
9	XRST	I	Reset signal input from the mechanism controller “L”: reset
10	SMUTE	I	Soft muting on/off control signal input from the mechanism controller “H”: muting on
11	MCKI	I	Master clock signal (33.8688 MHz) input
12	VSIOA0	—	Ground terminal (for I/O)
13	EXCKO1	O	Master clock signal (33.8688 MHz) output to the digital audio processor
14	EXCKO2	O	External clock 2 signal output terminal Not used
15	LRCK	O	L/R sampling clock signal (44.1kHz) output terminal Not used
16	F75HZ	O	Not used
17	VDIOA0	—	Power supply terminal (+3.3V) (for I/O)
18 to 25	MNT0 to MNT7	O	Monitor signal output terminal Not used
26	TCK	I	Clock signal input from the DVD system processor
27	TDI	I	Serial data input from the DVD system processor
28	VSCA1	—	Ground terminal (for core)
29	TDO	O	Serial data output to the DVD system processor
30	TMS	I	MS signal input from the DVD system processor
31	$\overline{\text{TRST}}$	I	Reset signal input from the DVD system processor “L”: reset
32 to 34	TEST1 to TEST3	I	Input terminal for the test (normally: fixed at “L”)
35	VDCA1	—	Power supply terminal (+2.5V) (for core)
36	UBIT	O	Not used
37	XBIT	O	Not used
38 to 41	SUPDT0 to SUPDT3	O	Supplementary data output terminal Not used
42	VSIOA1	—	Ground terminal (for I/O)
43, 44	SUPDT4, SUPDT5	O	Supplementary data output terminal Not used
45	VDIOA1	—	Power supply terminal (+3.3V) (for I/O)
46, 47	SUPDT6, SUPDT7	O	Supplementary data output terminal Not used
48	SUPEN	O	Supplementary data enable signal output terminal Not used
49	VSCA2	—	Ground terminal (for core)
50	NC	O	Not used
51, 52	TEST4, TEST5	I	Input terminal for the test (normally: fixed at “L”)
53	NC	O	Not used
54	VDCA2	—	Power supply terminal (+2.5V) (for core)
55, 56	NC	O	Not used
57	BCKASL	I	Input/output selection signal input terminal of bit clock signal (2.8224 MHz) for DSD data output “L”: input (slave), “H”: output (master) Fixed at “H” in this set
58	VSDSD0	—	Ground terminal (for DSD data output)
59	BCKAI	I	Bit clock signal (2.8224 MHz) input terminal for DSD data output Not used
60	BCKAO	O	Bit clock signal (2.8224 MHz) output terminal for DSD data output Not used

Pin No.	Pin Name	I/O	Description
61	PHREFI	I	Bit clock signal (2.8224 MHz) input terminal for DSD data output Not used
62	PHREFO	O	Bit clock signal (2.8224 MHz) output to the digital audio processor
63	ZDFL	O	Front L-ch Zero data flag detection signal output terminal Not used
64	DSAL	O	Front L-ch DSD data output to the digital audio processor
65	ZDFR	O	Front R-ch Zero data flag detection signal output terminal Not used
66	DSAR	O	Front R-ch DSD data output to the digital audio processor
67	VDDSD0	—	Power supply terminal (+3.3V) (for DSD data output)
68	ZDFC	O	Center zero data flag detection signal output terminal Not used
69	DSAC	O	Center DSD data output to the digital audio processor
70	ZDFLFE	O	Woofer zero data flag detection signal output terminal Not used
71	DSALFE	O	Woofer DSD data output to the digital audio processor
72	VSDSD1	—	Ground terminal (for DSD data output)
73	ZDFLS	O	Rear L-ch zero data flag detection signal output terminal Not used
74	DSALS	O	Rear L-ch DSD data output to the digital audio processor
75	ZDFRS	O	Rear R-ch zero data flag detection signal output terminal Not used
76	DSARS	O	Rear R-ch DSD data output to the digital audio processor
77	VDDSD1	—	Power supply terminal (+3.3V) (For DSD data output)
78, 79	IOUT0, IOUT1	O	Data output terminal for IEEE 1394 link chip interface Not used
80	VSCB0	—	Ground terminal (for core)
81, 82	IOUT2, IOUT3	O	Data output terminal for IEEE 1394 link chip interface Not used
83	VDCB0	—	Power supply terminal (+2.5V) (for core)
84, 85	IOUT4, IOUT5	O	Data output terminal for IEEE 1394 link chip interface Not used
86	VSIOB0	—	Ground terminal (for I/O)
87	IANCO	O	Transmission information data output terminal for IEEE 1394 link chip interface Not used
88	IFULL	I	Data transmission hold request signal input terminal for IEEE 1394 link chip interface Not used
89	IEMPTY	I	High speed transmission request signal input terminal for IEEE 1394 link chip interface Not used
90	VDIOB0	—	Power supply terminal (+3.3V) (for I/O)
91	IFRM	O	Frame reference signal output terminal for IEEE 1394 link chip interface Not used
92	IOUTE	O	Enable signal output terminal for IEEE 1394 link chip interface Not used
93	IBCK	O	Data transmission clock signal output terminal for IEEE 1394 link chip interface Not used
94	VSCB1	—	Ground terminal (for core)
95	IERR	I	Not used
96	IANCI	I	Not used
97	IPLAN	I	Not used
98	IHOLD	O	Not used
99	VDCB1	—	Power supply terminal (+2.5V) (for core)
100	IVLD	I	Not used
101 to 105	IDIN0 to IDIN4	I	Not used
106	VSIOB1	—	Ground terminal (for I/O)
107 to 109	IDIN5 to IDIN7	I	Not used
110	VDIOB1	—	Power supply terminal (+3.3V) (for I/O)
111 to 114	WAD0 to WAD3	I	External A/D data input terminal for PSP physical disc mark detection Not used
115	TESTI	I	Input terminal for the test (normally: fixed at “L”)
116	VSCB2	—	Ground terminal (for core)
117 to 120	WAD4 to WAD7	I	External A/D data input terminal for PSP physical disc mark detection Not used
121	VDCB2	—	Power supply terminal (+2.5V) (for core)

Pin No.	Pin Name	I/O	Description
122	WRFD	I	Not used
123	WCK	I	Operation clock signal input for PSP physical disc mark detection from the DVD decoder
124, 125	WAVDD0, WAVDD1	—	A/D power supply terminal (+2.5V) (for PSP physical disc mark detection)
126	WARFI	I	Analog RF signal input for PSP physical disc mark detection from the DVD/CD RF amplifier
127	WAVRB	I	A/D bottom reference terminal for PSP physical disc mark detection
128, 129	WAVSS1, WAVSS0	—	A/D ground terminal (for PSP physical disc mark detection)
130	VSIOA2	—	Ground terminal (for I/O)
131 to 134	DQ7 to DQ4	I/O	Two-way data bus with the SD-RAM
135	VDIOA2	—	Power supply terminal (+3.3V) (for I/O)
136 to 139	DQ3 to DQ0	I/O	Two-way data bus with the SD-RAM
140	VSIOA3	—	Ground terminal (for I/O)
141	DCLK	O	Clock signal output to the SD-RAM
142	DCKE	O	Clock enable signal output to the SD-RAM
143	XWE	O	Write enable signal output to the SD-RAM
144	XCAS	O	Column address strobe signal output to the SD-RAM
145	XRAS	O	Row address strobe signal output to the SD-RAM
146	VDIOA3	—	Power supply terminal (+3.3V) (for I/O)
147	NC	O	Not used
148, 149	A11, A10	O	Address signal output to the SD-RAM
150	VSCA3	—	Ground terminal (for core)
151, 152	A9, A8	O	Address signal output to the SD-RAM
153	VDCA3	—	Power supply terminal (+2.5V) (for core)
154 to 157	A7 to A4	O	Address signal output to the SD-RAM
158	VSIOA4	—	Ground terminal (for I/O)
159 to 162	A3 to A0	O	Address signal output to the SD-RAM
163	VDIOA4	—	Power supply terminal (+3.3V) (for I/O)
164	XSRQ	O	Serial data request signal output to the DVD decoder
165	XSHD	I	Header flag signal input from the DVD decoder
166	SDCK	I	Serial data transfer clock signal input from the DVD decoder
167	XSAK	I	Serial data effect flag signal input from the DVD decoder
168	SDEF	I	Error flag signal input from the DVD decoder
169 to 176	SD0 to SD7	I	Stream data signal input from the DVD decoder

• **DVD BOARD IC901 μPD70F3033BYGF-M10-3BA (SYSTEM CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	DAMP-DATA	O	Serial data output to the stream processors
2	DAMP-CLK	O	Serial data transfer clock signal output to the stream processors
3	I2C-DATA	I/O	Communication data bus with the DVD system processor and mechanism controller
4	$\overline{\text{CQ-RST}}$	O	Reset signal output to the DVD system processor "L": reset
5	I2C-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the DVD system processor and mechanism controller
6	DSP-DO	I	Write data input from the digital audio signal processor
7	DIG-DI	O	Read data output to the digital audio interface IC, digital audio signal processor and D/A converter
8	DIG-CLK	O	Clock signal output to the digital audio interface IC, digital audio signal processor and D/A converter
9	EVDD	—	Power supply terminal (+5V)
10	EVSS	—	Ground terminal
11	P-PWM	O	PWM voltage control signal output
12	$\overline{\text{DSP-RST}}$	O	Reset signal output to the digital audio signal processor "L": reset
13	$\overline{\text{DSP-PM}}$	O	PLL reset signal output to the digital audio signal processor "L": reset
14	DSP-CS	O	Chip select signal output to the digital audio signal processor
15	DSP-HACN	I	Acknowledge signal input from to the digital audio signal processor
16	DSP-BST	O	Boot trap signal output to the digital audio signal processor
17	DSP-GP9	I	Decode signal input from to the digital audio signal processor
18	DIR-ZERO	I	Audio serial data input from the digital audio interface IC
19	DIR-ERR	I	PLL lock error and data error flag input from the digital audio interface IC
20	DIR-CE	O	Chip enable signal output to the digital audio interface IC
21	VPP	—	Power supply terminal (for programming) Not used
22	DIR-XST	I	Source clock switching monitor input from the digital audio interface IC
23	DIR-AD	O	Not used
24	DIR-XMODE	I	System reset signal input from the digital audio interface IC "L": reset
25	DIRDO	I	Write data input from the digital audio interface IC
26	$\overline{\text{DAMP-RST}}$	O	Reset signal output to the stream processors "L": reset
27	DAMP-MUTEG	O	Muting on/off control signal output to the stream processors "H": muting on
28	DAMP-MUTEN	O	Muting on/off control signal output to the stream processors "H": muting on
29	CS1	O	Chip select signal output to the stream processor (for front L-ch and R-ch)
30	CS2	O	Chip select signal output to the stream processor (for center and woofer)
31	CS3	O	Chip select signal output to the stream processor (for rear L-ch and R-ch)
32	DAC-CS	O	Chip select signal output to the D/A converter
33	$\overline{\text{AD-RST}}$	O	Reset signal output to the A/D converter and D/A converter "L": reset
34	$\overline{\text{RESET}}$	I	System reset signal input "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
35	XT1	I	Sub system clock input terminal Not used
36	XT2	O	Sub system clock output terminal Not used
37	REG0	—	Not used
38	X2	O	Main system clock output terminal (20 MHz)
39	X1	I	Main system clock input terminal (20 MHz)
40	VSS	—	Ground terminal
41	VDD	—	Power supply terminal (+5V)
42	CLKOUT	O	Clock signal output terminal Not used

Pin No.	Pin Name	I/O	Description
43	$\overline{\text{DIP-RST}}$	O	Reset signal output to the power amplifier "L": reset
44	DIP-OCP	I	Protect signal input from the power amplifier
45	ST-POWER	O	System power on/off control signal output "H": power on
46	$\overline{\text{HP-MUTE}}$	O	Headphone muting on/off control signal output "L": muting on
47	$\overline{\text{AU-MUTE}}$	O	Audio line muting on/off control signal output "L": muting on
48	AV-SEL2	O	Audio/video selection signal output
49	PROG SW	I	SCAN SELECT switch input terminal "L": SELECTABLE, "H": INTERLACE
50	TU-ON	O	Tuner power on/off control signal output "H": power on
51	$\overline{\text{TUNED}}$	I	Tuning detection signal input from the tuner unit "L": tuned
52	TUN-DI	I	Serial data input from the tuner unit
53	TUN-CE	O	Chip enable signal output to the tuner unit
54	TUN-DO	O	Serial data output to the tuner unit
55	TUN-CLK	O	Serial data transfer clock signal output to the tuner unit
56	$\overline{\text{FL-MUTE}}$	O	Reset signal output to the fluorescent indicator tube driver "L": reset
57	FL-CLK	O	Serial data transfer clock signal output to the LED driver and fluorescent indicator tube driver
58	BVDD	—	Power supply terminal (+5V) (for bus interface)
59	BVSS	—	Ground terminal (for bus interface)
60	FL-DATA	O	Serial data output to the LED driver and fluorescent indicator tube driver
61	$\overline{\text{FL-CS}}$	O	Chip select signal output to the fluorescent indicator tube driver "L" active
62	$\overline{\text{LED-CS}}$	O	Standby signal output to the LED driver "L": standby
63	$\overline{\text{LED-CLR}}$	O	Reset signal output to the LED driver "L": reset
64	HPSW	I	Connection detection signal input of the headphone jack "L": no connected, "H": headphone connected
65	$\overline{\text{DFIL RST2}}$	O	Reset signal output to the digital audio processor "L": reset
66	SP RELAY	O	Relay drive signal output terminal for the speaker protect Not used
67	PARA-DO2	I	Serial data input from the mechanism deck controller
68	$\overline{\text{PARA-RST}}$	O	Reset signal output to the mechanism deck controller "L": reset
69	PARA-LT1	O	Serial data latch pulse signal output to the mechanism deck controller
70	PARA-LT2	O	Serial data latch pulse signal output terminal Not used
71	PARA-CLK	O	Serial data transfer clock signal output to the mechanism deck controller
72	PARA-DATA	O	Serial data output to the mechanism deck controller
73	PARA-DO1	I	Serial data input terminal Not used
74	AVDD	—	Power supply terminal (+5V) (analog system)
75	AVSS	—	Ground terminal (analog system)
76	AVREF	I	Reference voltage (+5V) input terminal (analog system)
77	NO USE	—	Not used
78	OPT-SEN2	I	Disc insert detection signal input from the photo sensor
79	OPT-SEN	I	Chucking detection signal input from the photo sensor
80	AREA1	I	Destination setting terminal
81	SEN2	I	Disc in/out switch input terminal "L": when a disc is inserted
82 to 84	KEY0 to KEY2	I	Key input terminal (A/D input)
85	EN-A	I	Jog dial pulse input from the rotary encoder (A phase input)
86	EN-B	I	Jog dial pulse input from the rotary encoder (B phase input)
87	MODEL	I	Model setting terminal
88	RDS-DATA	I	RDS serial data input from the RDS decoder (AEP, UK and Russian models only)
89	DVD-POWER	O	DVD power on/off control signal output "H": power on
90	STOP	I	System stop signal input
91	POWER-SW	I	System power on/off control signal input "H": power on

Pin No.	Pin Name	I/O	Description
92	SIRCS	I	Remote control signal input
93	WAKE	I	System wake up signal input by pressing any key on the front panel or remote commander or disc insert detect switch
94	RDS-CLK	I	RDS serial data transfer clock signal input from the RDS decoder (AEP, UK and Russian models only)
95	AV-SEL0	O	Audio/video selection signal output
96	AV-SEL1	O	Audio/video selection signal output
97	DF-SW	O	selection signal output to the digital audio processor
98	DF-SYNC	O	Sync signal output to the digital audio processor
99	$\overline{\text{DF-RST}}$	O	Reset signal output for the digital audio processor “L”: reset Not used
100	I2HLP	I/O	Busy signal input/output for the I2C bus

• **DVD BOARD IC902 PT3000 (MECHANISM DECK CONTROLLER)**

Pin No.	Pin Name	I/O	Description
1	VSS	—	Ground terminal
2	$\overline{\text{RESET}}$	I	Reset signal input from the system controller "L": reset
3	CLK	I	Serial data transfer clock signal input from the system controller
4	LAT	I	Serial data latch pulse signal input from the system controller
5	P15	I	Disc in/out switch input terminal "L": when a disc is ejected
6	P14	I	Disc in/out switch input terminal "L": when a disc is inserted
7 to 10	P13 to P10	I	Mode detect rotary encoder input terminal
11, 12	P9, P8	I	Not used
13	LATCHO	O	Serial data latch pulse signal output terminal Not used
14	CLKO	O	Serial data transfer clock signal output terminal Not used
15	DO1	O	Serial data output terminal Not used
16	DI2	I	Serial data input terminal Not used
17 to 19	P7 to P5	O	Not used
20	P4	O	LED drive control signal output of the disc insert detect sensor "H": LED on
21, 22	P3, P2	O	Eject motor drive control signal output
23, 24	P1, P0	O	Loading motor drive control signal output
25	DO2	O	Serial data output to the system controller
26	DI1	I	Serial data input from the system controller
27	PULLUP	—	Connected to power supply (+5V)
28	VCC	—	Power supply terminal (+5V)

SECTION 8
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Abbreviation

AUS	: Australian model	KR	: Korean model
CH	: Chinese model	MX	: Mexican model
CIS	: Russian model	MY	: Malaysia model
EA	: Soudi Arabia model	SP	: Singapore model
HK	: Hong Kong model	TW	: Taiwan model

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Replace only with part number specified.

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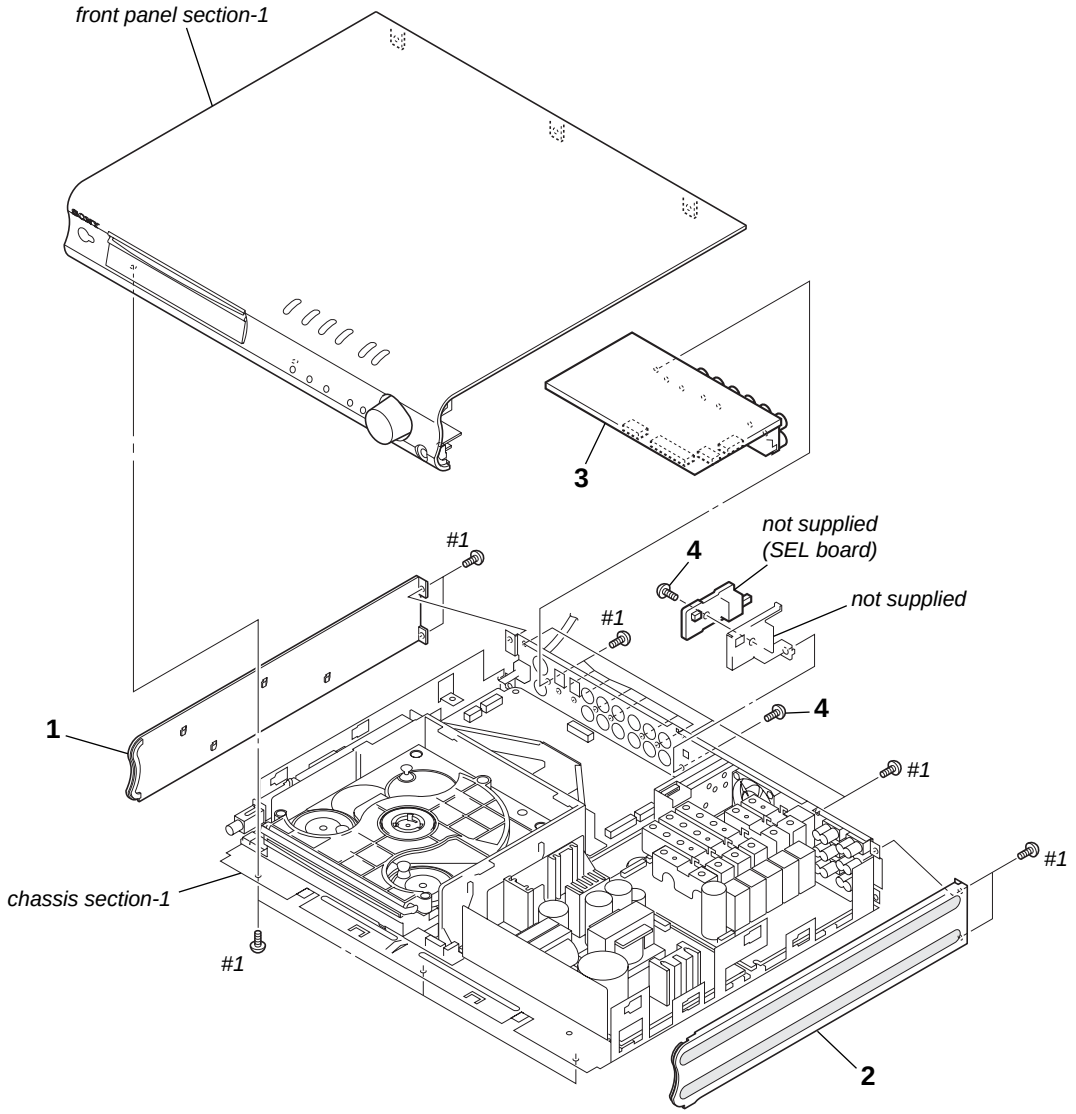
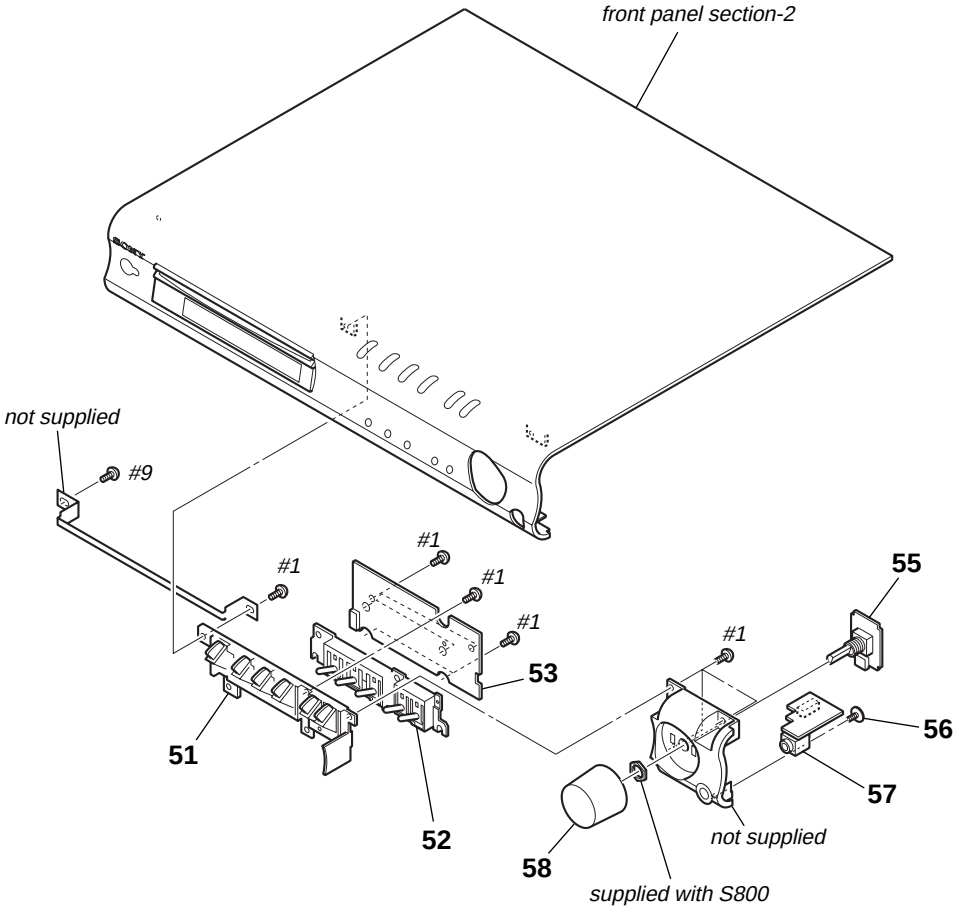
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

8-1. GENERAL SECTION



Ref. No.	Part No.	Description	Remark
1	4-240-394-01	SIDE PANEL (L)	
2	4-240-395-01	SIDE PANEL (R)	
3	A-4676-939-A	I/O BOARD, COMPLETE (S550: AEP, UK, CIS)	
3	A-4729-045-A	I/O BOARD, COMPLETE (S880: AEP, UK, CIS)	
3	A-4729-906-A	I/O BOARD, COMPLETE (E32, AUS, EA, HK, MX, SP, MY, TW)	
3	A-4730-166-A	I/O BOARD, COMPLETE (KR)	
3	A-4731-092-A	I/O BOARD, COMPLETE (CH)	
4	4-931-757-31	SCREW (DIA.2.6X8) (IT3B), TAPPING	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

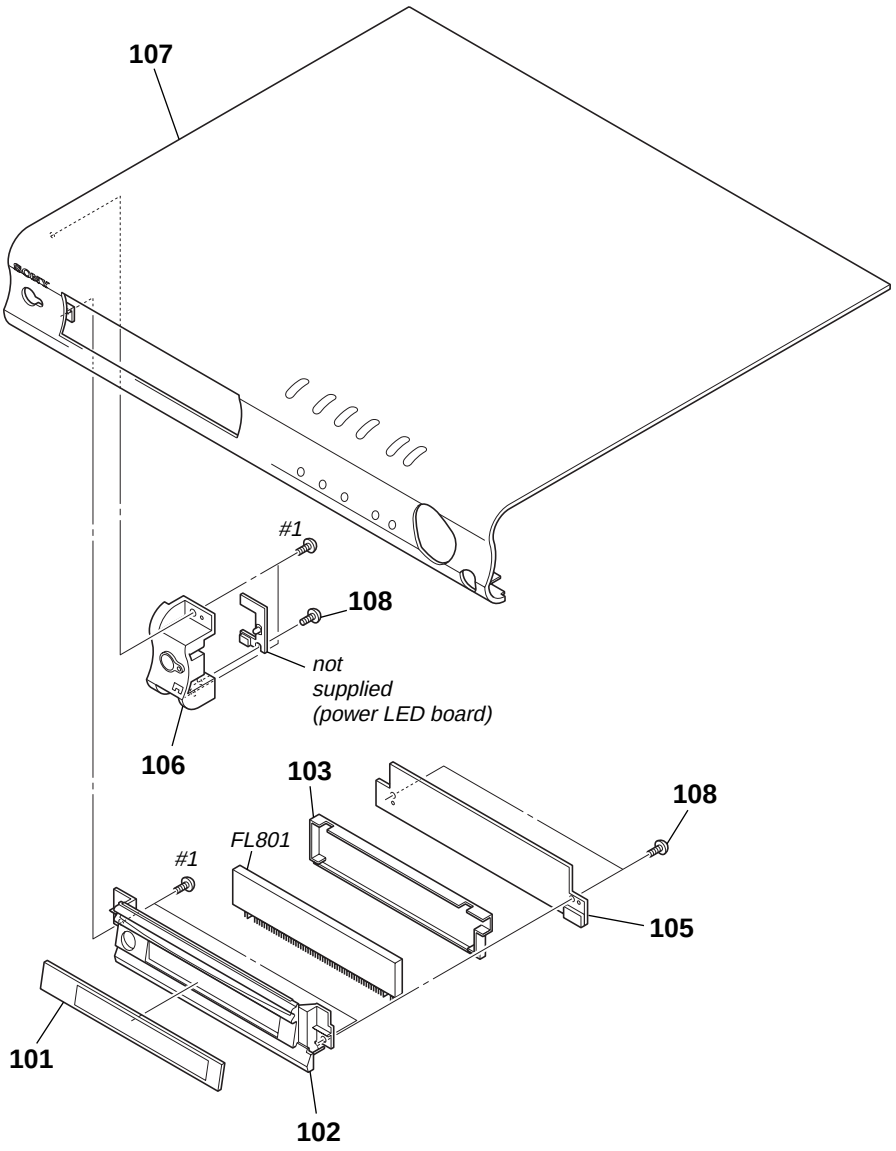
8-2. FRONT PANEL SECTION-1



Ref. No.	Part No.	Description	Remark
51	4-240-404-02	CD BUTTON	
52	4-240-405-01	BAND BUTTON	
53	1-685-074-11	CONTROL BOARD	
55	1-685-084-11	VOL BOARD	
56	2-626-294-01	SCREW (+ PTPWH) (2.6X7) (EXCEPT KR)	
56	3-229-336-01	SCREW, +BVWH TAPPING (KR)	

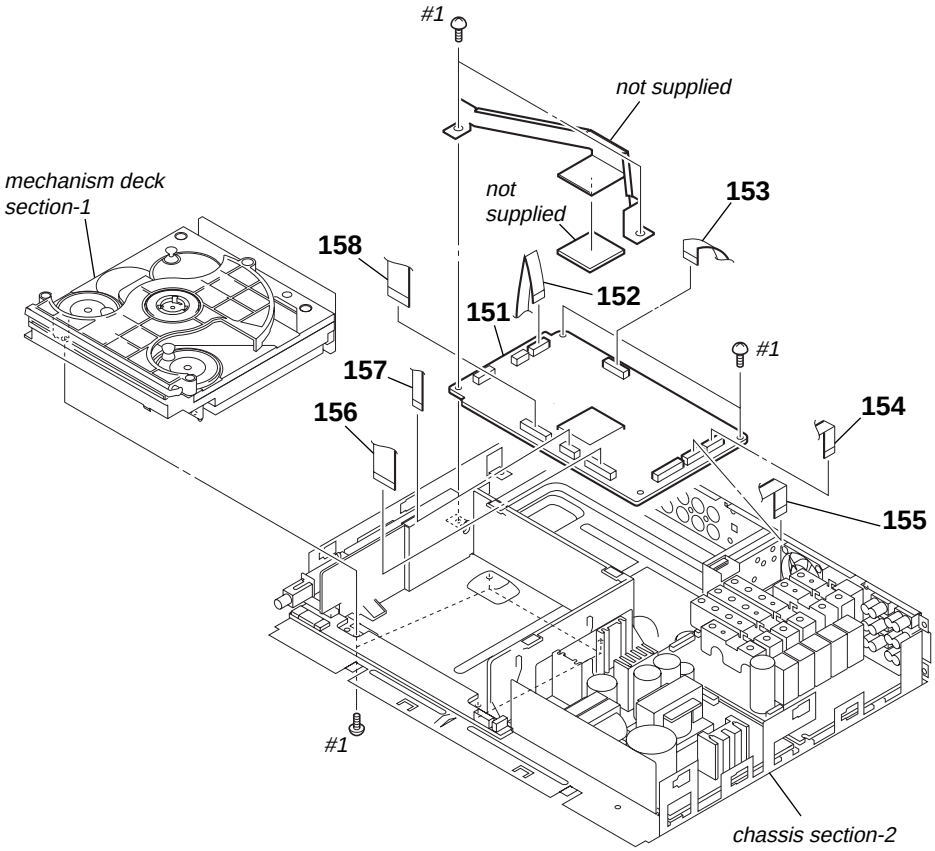
Ref. No.	Part No.	Description	Remark
57	1-685-083-11	HP BOARD	
58	4-240-024-01	KNOB VOLUME (S550)	
58	X-4952-564-1	KNOB (VOL) ASSY (S880)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#9	7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3	

8-3. FRONT PANEL SECTION-2



Ref. No.	Part No.	Description	Remark
101	X-4954-740-5	WINDOW SUB ASSY (KR)	
101	X-4955-250-1	WINDOW SUB ASSY (EXCEPT KR)	
102	X-4954-741-3	CD LID SUB ASSY	
103	4-240-402-02	FL HOLDER	
105	1-685-082-11	FL BOARD	
106	X-4954-738-2	POWER SUB ASSY	
107	4-240-393-02	PANEL (AL), FRONT (S550: KR, MX, EA, SP, AUS, E, HK, TW, CH)	
107	4-240-393-12	PANEL (AL), FRONT (S550: AEP, UK, CIS)	
107	4-241-535-02	PANEL (AL), FRONT (S880: KR, TW, MX, SP, EA, HK, E, AUS, CH)	
107	4-241-535-12	PANEL (AL), FRONT (S880: AEP, UK, CIS)	
108	4-931-757-31	SCREW (DIA.2.6X8) (IT3B), TAPPING	
FL801	1-518-824-11	INDICATOR TUBE, FLOURESCENT	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

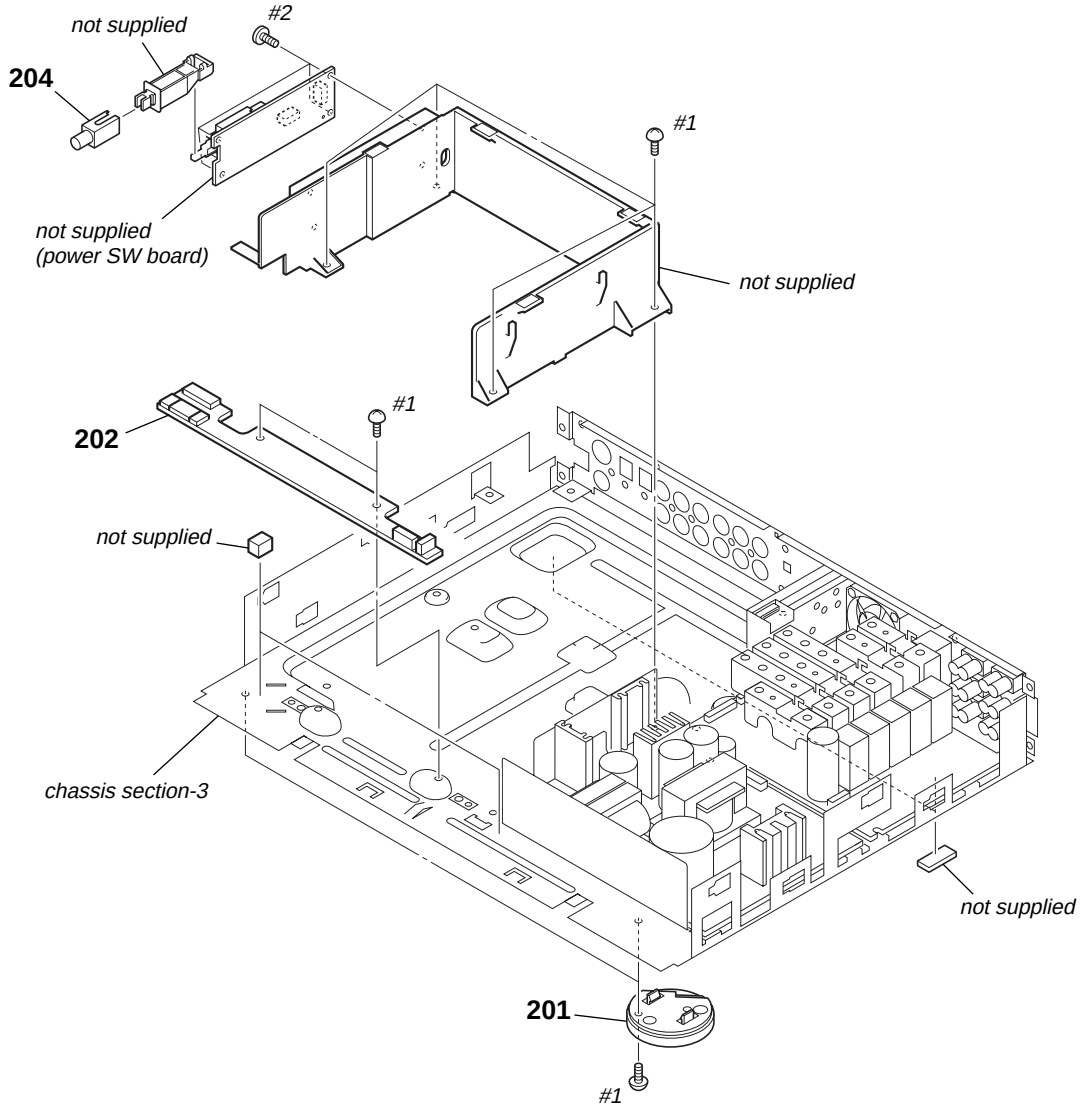
8-4. CHASSIS SECTION-1



Ref. No.	Part No.	Description	Remark
151	A-4433-609-A	DVD BOARD, COMPLETE (S550: CH)	
151	A-4676-925-A	DVD BOARD, COMPLETE (S550: AEP, UK)	
151	A-4729-034-A	DVD BOARD, COMPLETE (S880: AEP, UK)	
151	A-4730-160-A	DVD BOARD, COMPLETE (S550: KR)	
151	A-4730-201-A	DVD BOARD, COMPLETE (S880: KR)	
151	A-4730-605-A	DVD BOARD, COMPLETE (S550: E, MX)	
151	A-4730-612-A	DVD BOARD, COMPLETE (S550: EA)	
151	A-4730-616-A	DVD BOARD, COMPLETE	(S550: HK, SP, MY, TW)
151	A-4730-618-A	DVD BOARD, COMPLETE (S550: CIS)	
151	A-4730-620-A	DVD BOARD, COMPLETE (S550: AUS)	
151	A-4730-650-A	DVD BOARD, COMPLETE (S880: AUS)	
151	A-4730-652-A	DVD BOARD, COMPLETE (S880: CIS)	

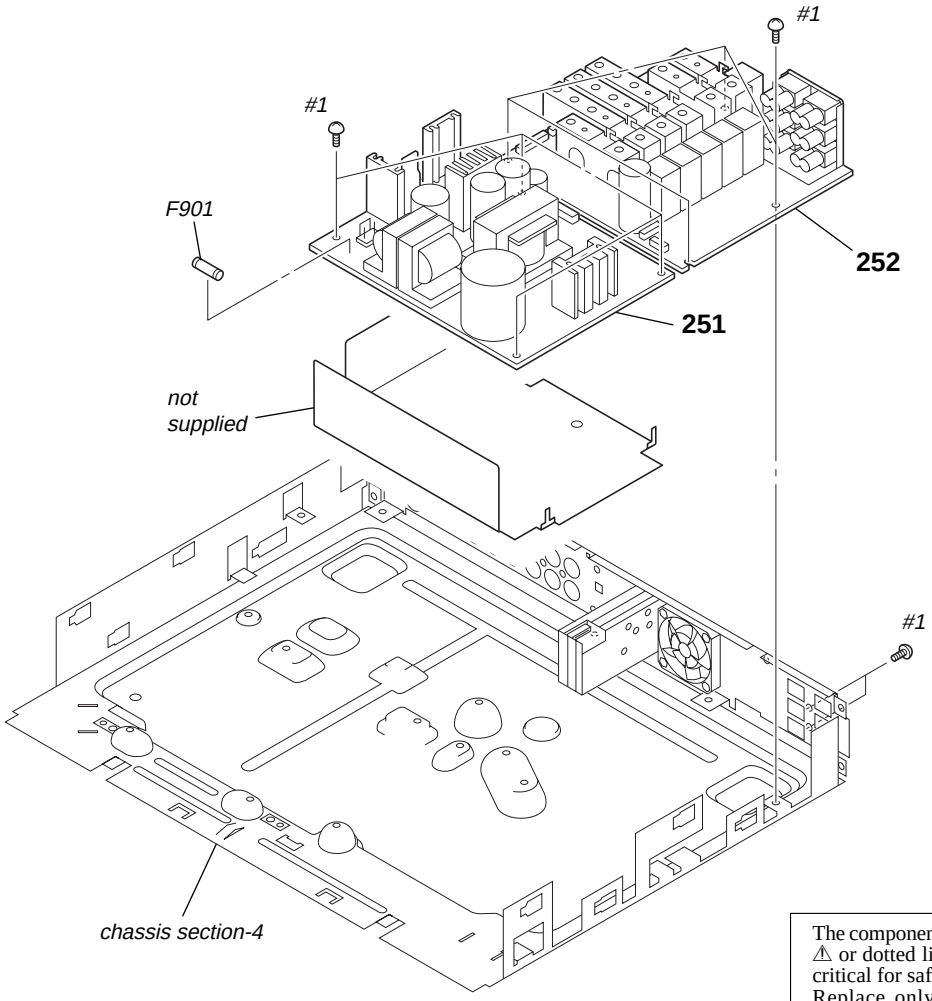
Ref. No.	Part No.	Description	Remark
151	A-4730-654-A	DVD BOARD, COMPLETE (S880: EA)	
151	A-4730-669-A	DVD BOARD, COMPLETE	(S880: HK, SP, MY, TW)
151	A-4730-674-A	DVD BOARD, COMPLETE (S880: E, MX)	
151	A-4733-713-A	DVD BOARD, COMPLETE (S880: CH)	
152	1-824-477-11	FLEXIBLE FLAT CABLE (17 CORE)	
153	1-824-475-11	FLEXIBLE FLAT CABLE (18 CORE)	
154	1-824-476-11	FLEXIBLE FLAT CABLE (12 CORE)	
155	1-824-624-11	FLEXIBLE FLAT CABLE (17 CORE)	
156	1-824-474-11	FLEXIBLE FLAT CABLE (29 CORE)	
157	1-824-473-11	FLEXIBLE FLAT CABLE (14 CORE)	
158	1-687-072-11	PWB, FLEXIBLE	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

8-5. CHASSIS SECTION-2



Ref. No.	Part No.	Description	Remark
201	X-4954-745-1	FOOT SUB ASSY	
202	A-4676-937-A	DDCON BOARD, COMPLETE (EXCEPT KR)	
202	A-4730-153-A	DDCON BOARD, COMPLETE (KR)	
204	4-240-397-01	POWER BUTTON	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#2	7-685-645-79	SCREW +P 3X6 TYPE2 NON-SLIT	

8-6. CHASSIS SECTION-3



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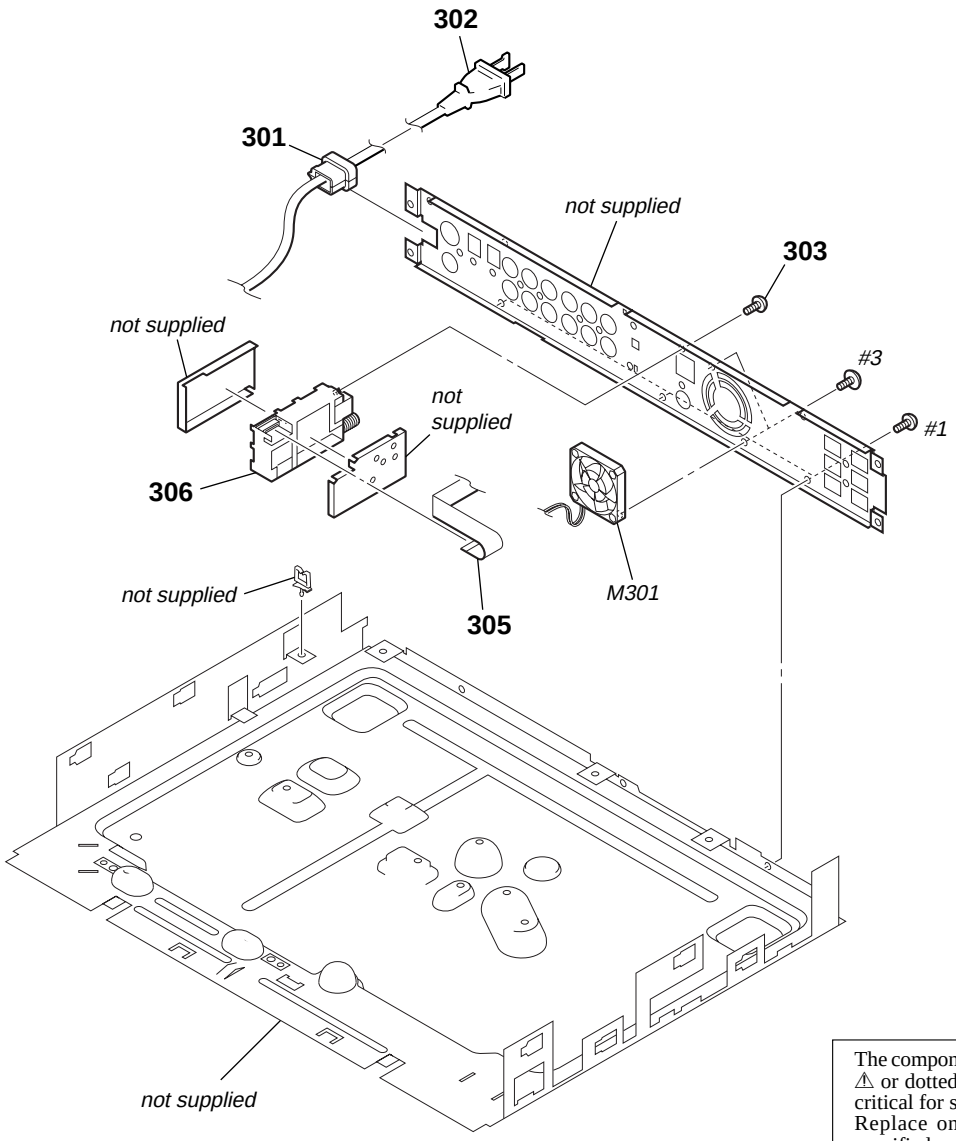
Ref. No.	Part No.	Description	Remark
251	A-4676-932-A	POWER BOARD, COMPLETE (AEP, UK, CIS, HK, SP, MY, AUS, CH)	
251	A-4730-164-A	POWER BOARD, COMPLETE (KR)	
251	A-4730-608-A	POWER BOARD, COMPLETE (MX, TW)	
251	A-4730-615-A	POWER BOARD, COMPLETE (EA)	
251	A-4730-623-A	POWER BOARD, COMPLETE (E)	
252	A-4676-942-A	AMP BOARD, COMPLETE (EXCEPT MX, KR)	
252	A-4730-168-A	AMP BOARD, COMPLETE (KR)	
252	A-4730-610-A	AMP BOARD, COMPLETE (MX)	
⚠F901	1-533-470-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V)	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	

8-7. CHASSIS SECTION-4



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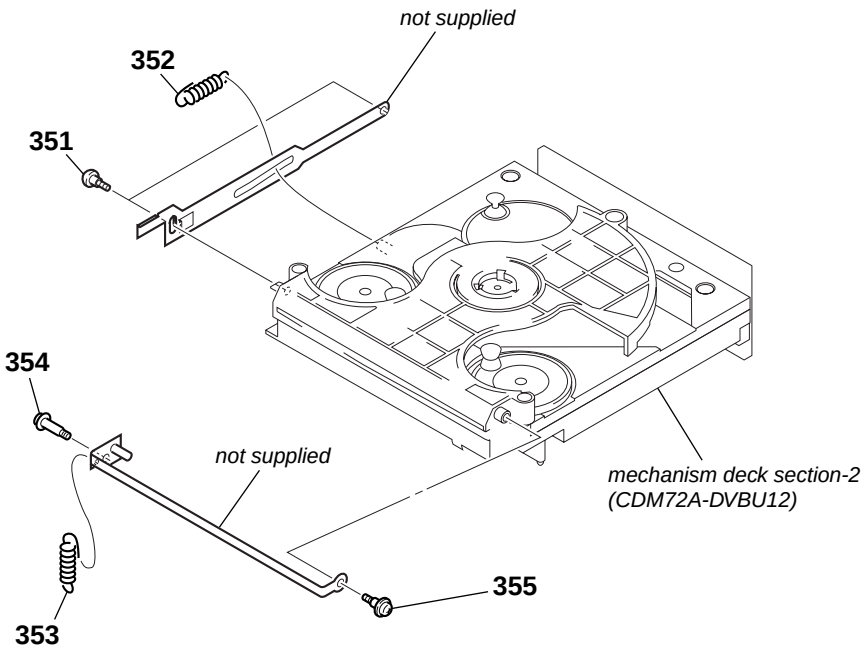
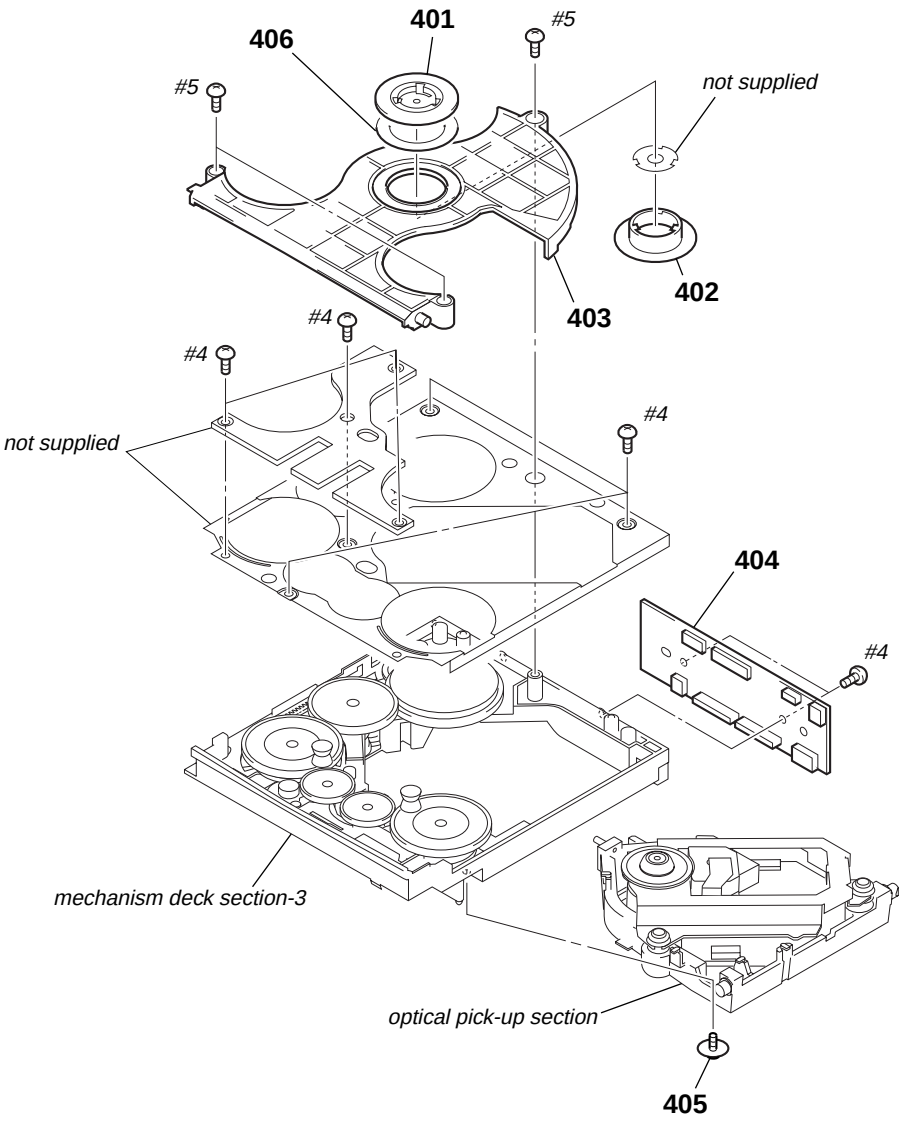
Ref. No.	Part No.	Description	Remark
301	3-703-244-00	BUSHING (2104), CORD (KR)	
301	4-217-350-11	STOPPER, CORD (EXCEPT KR)	
⚠302	1-696-169-12	CORD, POWER (AEP, UK, E, HK, EA, CIS, SP, MY, TW)	
⚠302	1-696-848-42	CORD, POWER (AUS)	
⚠302	1-769-079-22	CORD, POWER (KR)	
⚠302	1-775-789-91	CORD, POWER (MX)	
⚠302	1-782-464-22	CORD, POWER (CH)	
303	4-931-757-31	SCREW (DIA.2.6X8) (IT3B), TAPPING	
305	1-824-486-11	FLEXIBLE FLAT CABLE (11 CORE)	
306	A-4730-139-A	TUNER BOARD, COMPLETE (DTP-001) (EXCEPT E, EA, HK, MX, SP, MY)	
306	A-4730-143-A	TUNER BOARD, COMPLETE (DTP-001) (E, EA, HK, MX, SP, MY)	
M301	1-763-861-11	FAN, DC	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-659-14	SCREW +BVTP 4X8 TYPE2 N-S	

8-8. MECHANISM DECK SECTION-1 (CDM72B-DVBU12)



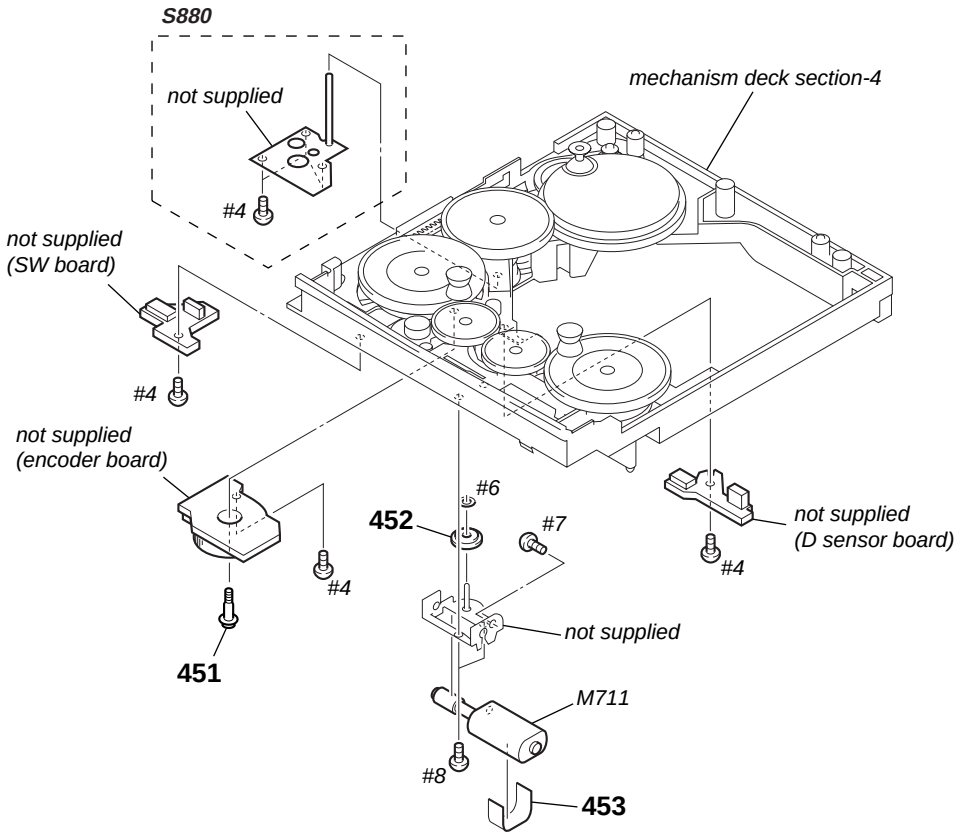
Ref. No.	Part No.	Description	Remark
351	4-240-856-01	SCREW (+PWH.2X6), STEP TAPPING	
352	4-241-159-01	SPRING (SL), TENSION	
353	4-241-160-01	SPRING (S5), TENSION	
354	4-992-069-01	SCREW (+PTPWH) (M2) (DIA. 7)	
355	4-243-128-01	SCREW (+PWH.2X3), STEP TAPPING	

8-9. MECHANISM DECK SECTION-2 (CDM72A-DVBU12)



Ref. No.	Part No.	Description	Remark
401	4-240-212-01	COVER (AT-DV)	
402	4-240-211-01	PULLEY (AT-DV)	
403	X-4954-988-1	HOLDER (AT) ASSY	
404	A-4676-588-A	RELAY BOARD, COMPLETE	
405	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
406	4-238-194-01	SHEET (PULLEY DV)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#5	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	

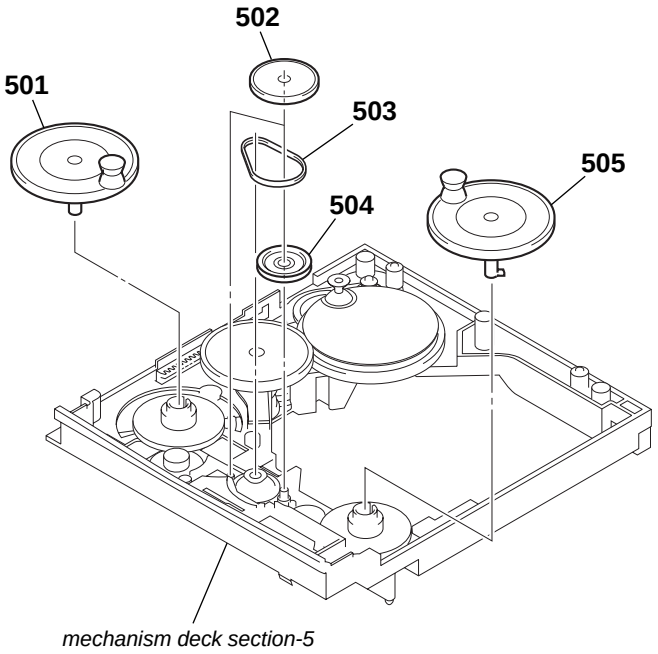
8-10. MECHANISM DECK SECTION-3 (CDM72A-DVBU12)



Ref. No.	Part No.	Description	Remark
451	4-239-618-01	SCREW (+PWH,2X6), STEP TAPPING	
452	4-240-200-01	GEAR (L1)	
* 453	3-344-749-01	RETAINER (B)	
M711	A-4746-746-A	MOTOR (LD) ASSY (LOADING)	

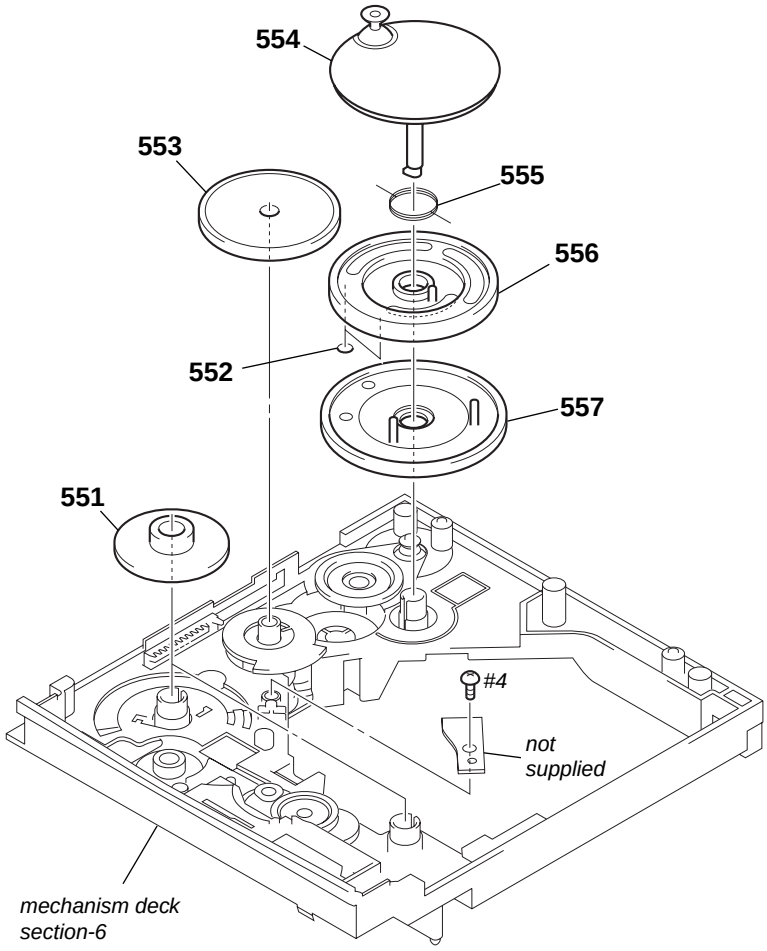
Ref. No.	Part No.	Description	Remark
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#6	7-623-921-01	RING, RETAINING, CAPSTAN	
#7	7-627-853-28	SCREW, PRECISION +P 2X3 TYPE3	
#8	7-685-102-19	SCREW +P 2X4 NON-SLIT TYPE 2	

8-11. MECHANISM DECK SECTION-4 (CDM72A-DVBU12)



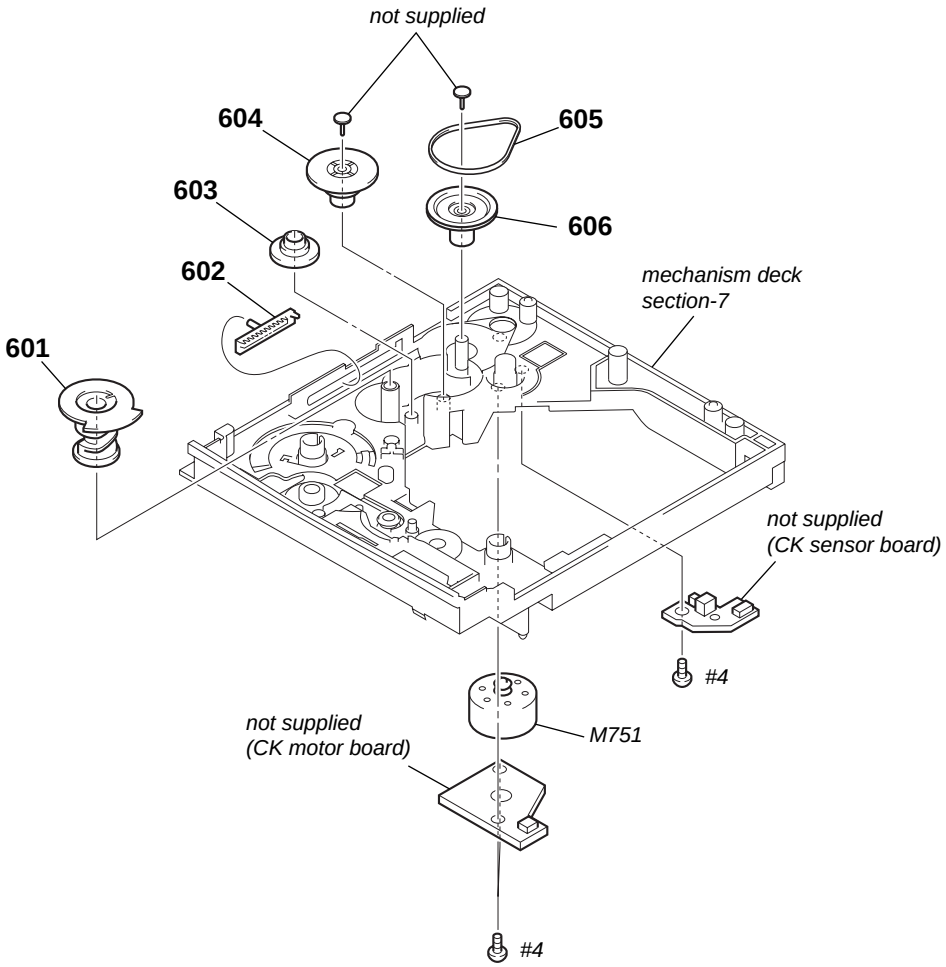
Ref. No.	Part No.	Description	Remark
501	X-4954-711-1	PULLEY (RTR) ASSY	
502	4-240-205-01	GEAR (S1)	
503	4-241-020-01	BELT (L2)	
504	4-240-202-01	PULLEY (LDG)	
505	X-4954-712-1	PULLEY (RTL) ASSY	

8-12. MECHANISM DECK SECTION-5 (CDM72A-DVBU12)



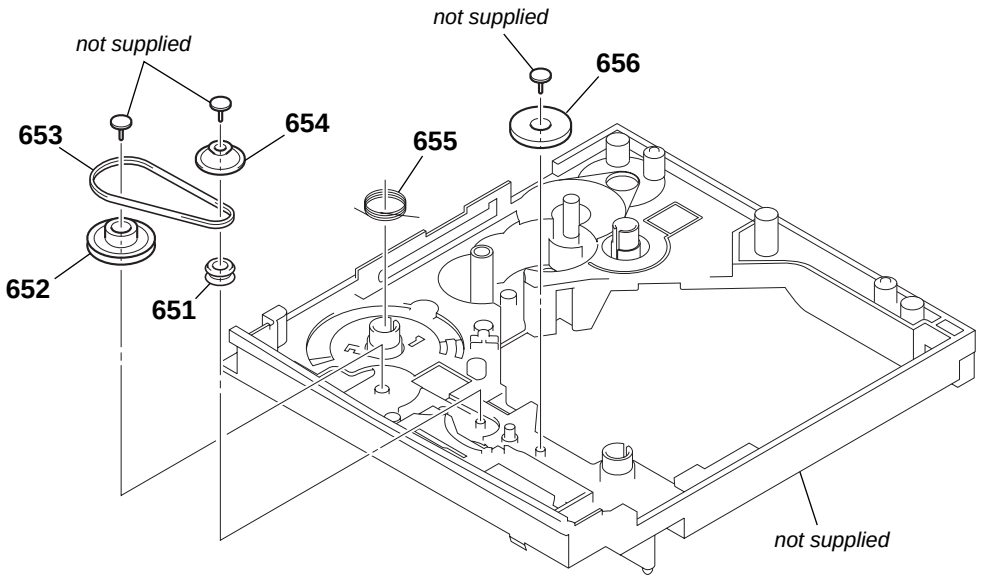
Ref. No.	Part No.	Description	Remark
551	4-240-203-01	GEAR (L4)	
552	4-238-552-01	REFLECTOR (CDM71)	
553	4-240-206-01	GEAR (S2)	
554	X-4954-710-1	PULLEY (SPT) ASSY	
555	4-237-430-01	SPRING (S), TORSION	
556	4-240-236-01	GEAR (SPT)	
557	4-240-209-01	GEAR (KT)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

8-13. MECHANISM DECK SECTION-6 (CDM72A-DVBU12)



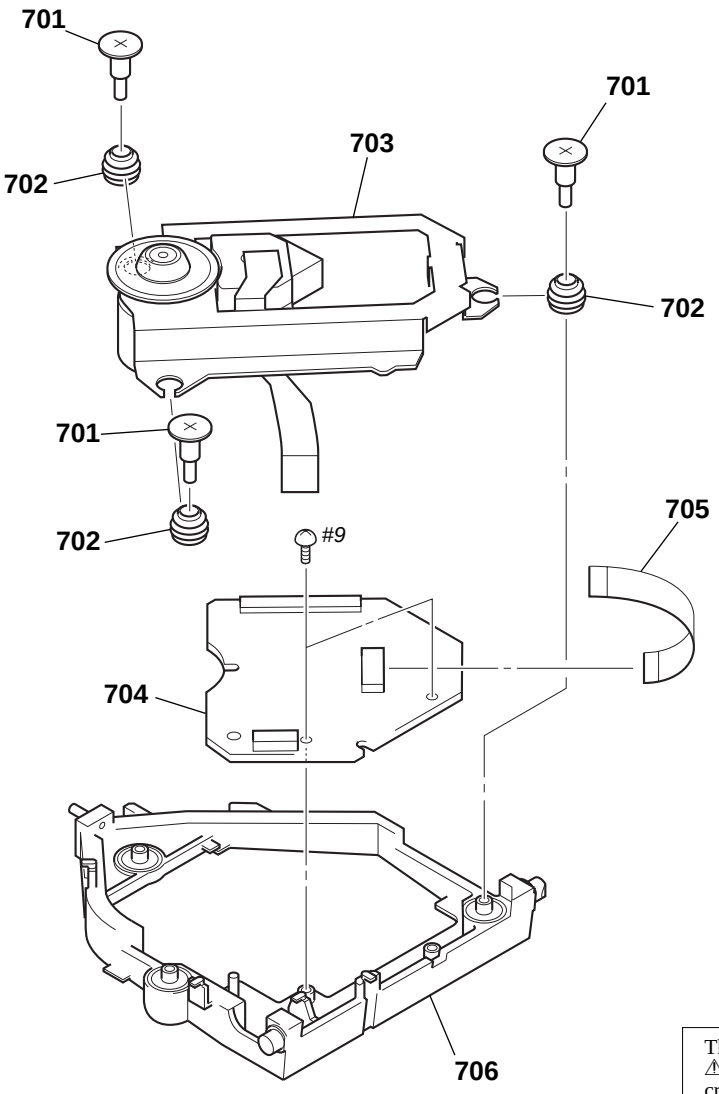
Ref. No.	Part No.	Description	Remark
601	4-240-213-01	CAM (CDM72)	
602	X-4954-987-1	LEVER (ST) ASSY	
603	4-240-208-01	GEAR (C2)	
604	4-240-207-01	GEAR (C1)	
605	4-241-021-01	BELT (CK)	
606	4-240-210-01	PULLEY (CKG)	
M751	A-4746-747-A	MOTOR (CK) ASSY (EJECT)	
#4	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	

8-14. MECHANISM DECK SECTION-7 (CDM72A-DVBU12)



Ref. No.	Part No.	Description	Remark
651	4-240-830-01	PULLEY (L5)	
652	4-240-202-01	PULLEY (LDG)	
653	4-241-021-01	BELT (CK)	
654	4-240-231-01	GEAR (L5)	
655	4-240-219-01	SPRING (L), TORSION	
656	4-240-204-01	GEAR (CNT)	

8-15. OPTICAL PICK-UP SECTION (DVBU12)



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Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark
701	4-981-923-01	SCREW (M), STEP	
702	3-053-847-31	INSULATOR	
⚠703	1-477-263-11	PICKUP UNIT (TDP022W)	
704	A-4728-690-A	RF BOARD, COMPLETE	
705	1-685-250-11	FLEXIBLE BOARD	
706	X-4954-899-1	HOLDER (BU) ASSY	
#9	7-685-533-14	SCREW +BTP 2.6X6 TYPE2 N-S	

SECTION 9
ELECTRICAL PARTS LIST

AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation

AUS	: Australian model	KR	: Korean model
CH	: Chinese model	MX	: Mexican model
CIS	: Rissian model	MY	: Malaysia model
EA	: Saudi Arabia model	SP	: Singapore model
HK	: Hong Kong model	TW	: Taiwan model

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
	A-4676-942-A	AMP BOARD, COMPLETE (EXCEPT MX, KR)			
	A-4730-168-A	AMP BOARD, COMPLETE (KR)			
	A-4730-610-A	AMP BOARD, COMPLETE (MX)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR/SHORT >			
C101	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C102	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C103	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C104	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C105	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C106	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C111	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C112	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C113	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C114	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C115	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C116	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C121	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C122	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C123	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C124	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C125	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C126	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C131	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C132	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C133	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C134	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C135	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C136	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C139	1-216-864-11	SHORT			
C141	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C142	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C143	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C144	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C145	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C146	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C147	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C148	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C149	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C150	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C151	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C152	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C161	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C162	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C163	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C164	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C165	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C166	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C167	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C168	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C169	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C170	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C171	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C172	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C181	1-162-968-11	CERAMIC CHIP		10%	50V
C182	1-164-245-11	CERAMIC CHIP		10%	25V
C189	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C190	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C191	1-126-193-21	ELECT	1uF	20%	50V
C192	1-216-295-11	SHORT			
C194	1-216-295-11	SHORT			
C197	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C199	1-216-295-11	SHORT			
C300	1-115-819-11	ELECT	2200uF	20%	35V
C301	1-126-153-11	ELECT	22uF	20%	6.3V
C302	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C303	1-136-157-00	FILM	0.022uF	5%	50V
C304	1-136-157-00	FILM	0.022uF	5%	50V
C306	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C307	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C308	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C310	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C311	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C312	1-124-584-00	ELECT	100uF	20%	10V
C313	1-136-165-00	FILM	0.1uF	5%	50V
C316	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C317	1-126-948-11	ELECT	100uF	20%	35V
C318	1-104-665-11	ELECT	100uF	20%	10V
C319	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C320	1-124-584-00	ELECT	100uF	20%	10V

AMP

Ref. No.	Part No.	Description			Remark
C323	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C324	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C325	1-124-584-00	ELECT	100uF	20%	10V
C326	1-124-589-11	ELECT	47uF	20%	16V
C327	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C328	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C329	1-126-176-11	ELECT	220uF	20%	10V
C330	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C331	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C332	1-136-165-00	FILM	0.1uF	5%	50V
C333	1-136-157-00	FILM	0.022uF	5%	50V
C334	1-136-157-00	FILM	0.022uF	5%	50V
C336	1-124-584-00	ELECT	100uF	20%	10V
C337	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C341	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C342	1-126-948-11	ELECT	100uF	20%	35V
C343	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C344	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C345	1-104-665-11	ELECT	100uF	20%	10V
C348	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C349	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C350	1-124-584-00	ELECT	100uF	20%	10V
C351	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C352	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C354	1-136-157-00	FILM	0.022uF	5%	50V
C355	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C356	1-136-157-00	FILM	0.022uF	5%	50V
C358	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C359	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C362	1-104-665-11	ELECT	100uF	20%	10V
C363	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C364	1-126-948-11	ELECT	100uF	20%	35V
C365	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C368	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C372	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C373	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C374	1-136-165-00	FILM	0.1uF	5%	50V
C375	1-136-157-00	FILM	0.022uF	5%	50V
C376	1-136-157-00	FILM	0.022uF	5%	50V
C378	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C381	1-104-665-11	ELECT	100uF	20%	10V
C382	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C383	1-126-948-11	ELECT	100uF	20%	35V
C384	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C387	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C388	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C389	1-124-584-00	ELECT	100uF	20%	10V
C390	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C391	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C392	1-124-584-00	ELECT	100uF	20%	10V
C393	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C394	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C395	1-136-165-00	FILM	0.1uF	5%	50V
C396	1-136-157-00	FILM	0.022uF	5%	50V
C397	1-136-157-00	FILM	0.022uF	5%	50V
C399	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C400	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C401	1-104-665-11	ELECT	100uF	20%	10V
C402	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C403	1-126-948-11	ELECT	100uF	20%	35V
C404	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C405	1-104-665-11	ELECT	100uF	20%	10V
C406	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C407	1-104-665-11	ELECT	100uF	20%	10V
C408	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C409	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C410	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C411	1-136-165-00	FILM	0.1uF	5%	50V
C412	1-136-157-00	FILM	0.022uF	5%	50V
C413	1-136-157-00	FILM	0.022uF	5%	50V
C414	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C416	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C417	1-104-665-11	ELECT	100uF	20%	10V
C418	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C419	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C420	1-126-948-11	ELECT	100uF	20%	35V
C421	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C422	1-104-665-11	ELECT	100uF	20%	10V
C423	1-104-665-11	ELECT	100uF	20%	10V
C424	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C425	1-104-665-11	ELECT	100uF	20%	10V
C426	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C427	1-104-665-11	ELECT	100uF	20%	10V
C432	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C451	1-131-704-11	FILM	1uF	5%	50V
C452	1-131-704-11	FILM	1uF	5%	50V
C453	1-131-704-11	FILM	1uF	5%	50V
C454	1-131-704-11	FILM	1uF	5%	50V
C455	1-131-704-11	FILM	1uF	5%	50V
C456	1-131-704-11	FILM	1uF	5%	50V
C457	1-131-704-11	FILM	1uF	5%	50V
C458	1-131-704-11	FILM	1uF	5%	50V
C459	1-131-704-11	FILM	1uF	5%	50V
C460	1-131-704-11	FILM	1uF	5%	50V
C461	1-131-704-11	FILM	1uF	5%	50V
C462	1-131-704-11	FILM	1uF	5%	50V
C471	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C472	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C473	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C474	1-126-935-11	ELECT	470uF	20%	16V
C481	1-162-928-11	CERAMIC CHIP	120PF	5%	50V
C482	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C483	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C484	1-126-935-11	ELECT	470uF	20%	16V
C490	1-126-933-11	ELECT	100uF	20%	16V
C491	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C492	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C493	1-126-947-11	ELECT	47uF	20%	35V
		< CONNECTOR >			
CN300	1-565-731-11	PLUG, CONNECTOR (2.5mm) 5P			
CN301	1-779-280-11	CONNECTOR, FFC (LIF (NON-ZIF)) 12P			
* CN302	1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			

AMP

Ref. No.	Part No.	Description	Remark
CN305	1-779-285-11	CONNECTOR, FFC/FPC (ZIF) 17P	
* CN309	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P	
		< DIODE >	
D101	8-719-404-50	DIODE MA111-TX	
D102	8-719-404-50	DIODE MA111-TX	
D103	8-719-404-50	DIODE MA111-TX	
D104	8-719-404-50	DIODE MA111-TX	
D105	8-719-404-50	DIODE MA111-TX	
D106	8-719-404-50	DIODE MA111-TX	
D181	8-719-404-50	DIODE MA111-TX	
D190	8-719-404-50	DIODE MA111-TX	
D191	8-719-404-50	DIODE MA111-TX	
D192	8-719-083-63	DIODE UDZSTE-1713B	
D197	8-719-404-50	DIODE MA111-TX	
D311	6-500-131-01	DIODE LI116	
D312	6-500-131-01	DIODE LI116	
D313	6-500-131-01	DIODE LI116	
D314	6-500-131-01	DIODE LI116	
D315	6-500-131-01	DIODE LI116	
D316	6-500-131-01	DIODE LI116	
D321	6-500-131-01	DIODE LI116	
D322	6-500-131-01	DIODE LI116	
D323	6-500-131-01	DIODE LI116	
D324	6-500-131-01	DIODE LI116	
D325	6-500-131-01	DIODE LI116	
D326	6-500-131-01	DIODE LI116	
D331	6-500-260-01	DIODE P6SMB39AT3	
D332	6-500-260-01	DIODE P6SMB39AT3	
D333	6-500-260-01	DIODE P6SMB39AT3	
D334	6-500-260-01	DIODE P6SMB39AT3	
D335	6-500-260-01	DIODE P6SMB39AT3	
D336	6-500-260-01	DIODE P6SMB39AT3	
D341	6-500-260-01	DIODE P6SMB39AT3	
D342	6-500-260-01	DIODE P6SMB39AT3	
D343	6-500-260-01	DIODE P6SMB39AT3	
D344	6-500-260-01	DIODE P6SMB39AT3	
D345	6-500-260-01	DIODE P6SMB39AT3	
D346	6-500-260-01	DIODE P6SMB39AT3	
D351	6-500-248-01	DIODE SFPL-62V	
D352	6-500-248-01	DIODE SFPL-62V	
D353	6-500-248-01	DIODE SFPL-62V	
D354	6-500-248-01	DIODE SFPL-62V	
D355	6-500-248-01	DIODE SFPL-62V	
D356	6-500-248-01	DIODE SFPL-62V	
D361	6-500-248-01	DIODE SFPL-62V	
D362	6-500-248-01	DIODE SFPL-62V	
D363	6-500-248-01	DIODE SFPL-62V	
D364	6-500-248-01	DIODE SFPL-62V	
D365	6-500-248-01	DIODE SFPL-62V	
D366	6-500-248-01	DIODE SFPL-62V	
		< FERRITE BEAD >	
FB300	1-469-760-21	FERRITE BEAD	
FB301	1-469-760-21	FERRITE BEAD	
FB303	1-400-160-51	FERRITE BEAD	
FB304	1-469-760-21	FERRITE BEAD	
FB305	1-414-398-11	INDUCTOR (SMD)10uH	
FB306	1-216-295-11	SHORT	
FB307	1-469-760-21	FERRITE BEAD	
FB308	1-469-760-21	FERRITE BEAD	
FB309	1-400-160-51	FERRITE BEAD	
FB310	1-216-295-11	SHORT	
FB311	1-216-295-11	SHORT	
FB312	1-400-160-51	FERRITE BEAD	
FB313	1-400-160-51	FERRITE BEAD	
FB314	1-469-760-21	FERRITE BEAD	
FB315	1-469-760-21	FERRITE BEAD	
FB318	1-400-160-51	FERRITE BEAD	
FB320	1-400-160-51	FERRITE BEAD	
		< FILTER >	
FL300	1-234-177-21	FILTER, CHIP EMI	
		< GROUND TERMINAL >	
GP301	1-537-770-21	TERMINAL BOARD GROUND	
		< IC >	
IC300	6-701-189-01	IC MC74VHC1GU04DFT1	
IC301	6-701-845-01	IC CXD9702L	
IC302	8-759-533-85	IC BA05FP-E2	
IC303	8-759-460-72	IC BA033FP-E2	
IC304	6-701-845-01	IC CXD9702L	
IC305	6-700-279-01	IC CXD9634Q	
IC306	6-701-845-01	IC CXD9702L	
IC307	6-701-845-01	IC CXD9702L	
IC308	6-700-279-01	IC CXD9634Q	
IC309	6-701-845-01	IC CXD9702L	
IC310	6-700-279-01	IC CXD9634Q	
IC311	6-701-845-01	IC CXD9702L	
IC401	8-759-385-17	IC NJM4580E (TE2)	
		< TERMINAL BOARD >	
J401	1-694-919-11	TERMINAL BOARD (SPEAKER FRONT L/R, CENTER, WOOFER, REAR L/R)	
		< COIL/SHORT >	
L300	1-216-295-11	SHORT CHIP 0	
L302	1-412-939-11	INDUCTOR 1uH	
L401	1-456-035-11	INDUCTOR 10uH	
L402	1-456-035-11	INDUCTOR 10uH	
L403	1-456-035-11	INDUCTOR 10uH	
L404	1-456-035-11	INDUCTOR 10uH	
L405	1-456-035-11	INDUCTOR 10uH	
L406	1-456-035-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q101	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q102	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q103	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q104	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q105	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q106	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	
Q107	8-729-120-28	TRANSISTOR 2SC2412K-T-146-QR	

AMP | **CK MOTOR** | **CK SENSOR** | **CONTROL**

Ref. No.	Part No.	Description			Remark
Q108	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q109	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q110	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q111	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q112	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q113	8-729-901-00	TRANSISTOR	DTC124EK-T146		
Q114	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q190	8-729-801-84	TRANSISTOR	2SB1013-4		
Q191	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q192	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
		< RESISTOR >			
R101	1-216-845-11	METAL CHIP	100K	5%	1/10W
R102	1-216-845-11	METAL CHIP	100K	5%	1/10W
R103	1-216-845-11	METAL CHIP	100K	5%	1/10W
R104	1-216-845-11	METAL CHIP	100K	5%	1/10W
R105	1-216-845-11	METAL CHIP	100K	5%	1/10W
R106	1-216-845-11	METAL CHIP	100K	5%	1/10W
R107	1-216-845-11	METAL CHIP	100K	5%	1/10W
R108	1-216-845-11	METAL CHIP	100K	5%	1/10W
R109	1-216-845-11	METAL CHIP	100K	5%	1/10W
R110	1-216-845-11	METAL CHIP	100K	5%	1/10W
R111	1-216-845-11	METAL CHIP	100K	5%	1/10W
R112	1-216-845-11	METAL CHIP	100K	5%	1/10W
R113	1-216-845-11	METAL CHIP	100K	5%	1/10W
R190	1-216-845-11	METAL CHIP	100K	5%	1/10W
R191	1-216-837-00	METAL CHIP	22K	5%	1/10W
R192	1-216-837-00	METAL CHIP	22K	5%	1/10W
R193	1-216-864-11	METAL CHIP	0	5%	1/10W
R300	1-216-833-11	METAL CHIP	10K	5%	1/10W
R301	1-216-821-11	METAL CHIP	1K	5%	1/10W
R302	1-216-857-11	METAL CHIP	1M	5%	1/10W
R304	1-216-809-11	METAL CHIP	100	5%	1/10W
R305	1-216-809-11	METAL CHIP	100	5%	1/10W
R307	1-216-809-11	METAL CHIP	100	5%	1/10W
R308	1-216-821-11	METAL CHIP	1K	5%	1/10W
R309	1-216-821-11	METAL CHIP	1K	5%	1/10W
R310	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R311	1-216-821-11	METAL CHIP	1K	5%	1/10W
R312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R313	1-216-821-11	METAL CHIP	1K	5%	1/10W
R315	1-216-809-11	METAL CHIP	100	5%	1/10W
R316	1-216-809-11	METAL CHIP	100	5%	1/10W
R317	1-216-809-11	METAL CHIP	100	5%	1/10W
R318	1-216-809-11	METAL CHIP	100	5%	1/10W
R319	1-216-809-11	METAL CHIP	100	5%	1/10W
R320	1-216-809-11	METAL CHIP	100	5%	1/10W
R321	1-216-809-11	METAL CHIP	100	5%	1/10W
R322	1-216-805-11	METAL CHIP	47	5%	1/10W
R325	1-216-801-11	METAL CHIP	22	5%	1/10W
R330	1-216-809-11	METAL CHIP	100	5%	1/10W
R333	1-216-809-11	METAL CHIP	100	5%	1/10W
R334	1-216-817-11	METAL CHIP	470	5%	1/10W
R335	1-216-809-11	METAL CHIP	100	5%	1/10W
R336	1-216-817-11	METAL CHIP	470	5%	1/10W
R337	1-216-821-11	METAL CHIP	1K	5%	1/10W
R338	1-216-864-11	METAL CHIP	0	5%	1/10W
R339	1-216-817-11	METAL CHIP	470	5%	1/10W
R340	1-216-817-11	METAL CHIP	470	5%	1/10W
R341	1-216-817-11	METAL CHIP	470	5%	1/10W
R342	1-216-817-11	METAL CHIP	470	5%	1/10W
R343	1-216-809-11	METAL CHIP	100	5%	1/10W
R344	1-216-817-11	METAL CHIP	470	5%	1/10W
R346	1-216-864-11	METAL CHIP	0	5%	1/10W
R347	1-216-864-11	METAL CHIP	0	5%	1/10W
R348	1-216-809-11	METAL CHIP	100	5%	1/10W
R349	1-216-809-11	METAL CHIP	100	5%	1/10W
R350	1-216-809-11	METAL CHIP	100	5%	1/10W
R370	1-216-819-11	METAL CHIP	680	5%	1/10W
R395	1-216-031-00	METAL CHIP	180	5%	1/10W
R396	1-216-031-00	METAL CHIP	180	5%	1/10W
R397	1-216-031-00	METAL CHIP	180	5%	1/10W
R398	1-216-841-11	METAL CHIP	47K	5%	1/10W
R399	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R470	1-216-837-11	METAL CHIP	22K	5%	1/10W
R471	1-216-837-11	METAL CHIP	22K	5%	1/10W
R472	1-216-837-11	METAL CHIP	22K	5%	1/10W
R473	1-216-837-11	METAL CHIP	22K	5%	1/10W
R474	1-216-839-11	METAL CHIP	33K	5%	1/10W
R475	1-218-725-11	RES-CHIP	24K	5%	1/10W
R480	1-216-837-11	METAL CHIP	22K	5%	1/10W
R481	1-216-837-11	METAL CHIP	22K	5%	1/10W
R482	1-216-837-11	METAL CHIP	22K	5%	1/10W
R483	1-216-837-11	METAL CHIP	22K	5%	1/10W
R484	1-216-839-11	METAL CHIP	33K	5%	1/10W
R485	1-218-725-11	RES-CHIP	24K	5%	1/10W
R490	1-216-833-11	METAL CHIP	10K	5%	1/10W
R491	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VIBRATOR >			
X300	1-795-286-21	VIBRATOR, CRYSTAL (44.152MHz)			
**********					
		CK MOTOR BOARD			
		**********			
**********					
		CK SENSOR BOARD			
		**********			
		< PHOTO SENSOR >			
IC721	8-749-017-45	SENSOR, PHOTO RPR-220C1N			
**********					
	1-685-074-11	CONTROL BOARD			
		**********			
		< RESISTOR >			
R800	1-216-815-11	METAL CHIP	330	5%	1/10W
R801	1-216-817-11	METAL CHIP	470	5%	1/10W
R802	1-216-819-11	METAL CHIP	680	5%	1/10W
R803	1-216-821-11	METAL CHIP	1K	5%	1/10W
R809	1-216-813-11	METAL CHIP	220	5%	1/10W
R837	1-216-815-11	METAL CHIP	330	5%	1/10W
R844	1-216-817-11	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description			Remark
R849	1-216-819-11	METAL CHIP	680	5%	1/10W
R860	1-216-821-11	METAL CHIP	1K	5%	1/10W
R864	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R873	1-216-813-11	METAL CHIP	220	5%	1/10W
		< SWITCH >			
S801	1-786-220-11	SWITCH, KEYBOARD (▷)			
S802	1-786-220-11	SWITCH, KEYBOARD (❚❚)			
S803	1-786-220-11	SWITCH, KEYBOARD (PRESET+, ▶▶I NEXT)			
S804	1-786-220-11	SWITCH, KEYBOARD (■)			
S805	1-786-220-11	SWITCH, KEYBOARD (PRESE–, I◀◀ PREV)			
S806	1-786-220-11	SWITCH, KEYBOARD (⏏)			
S821	1-786-220-11	SWITCH, KEYBOARD (FIELD, +)			
S822	1-786-220-11	SWITCH, KEYBOARD (SOUND, –)			
S823	1-786-220-11	SWITCH, KEYBOARD (DISPLAY)			
S824	1-786-220-11	SWITCH, KEYBOARD (BAND)			
S825	1-786-220-11	SWITCH, KEYBOARD (FUNCTION)			
**********					
	A-4676-937-A	DDCON BOARD, COMPLETE (EXCEPT KR)			
	A-4730-153-A	DDCON BOARD, COMPLETE (KR)			
		**********			
		< CAPACITOR >			
C820	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C821	1-124-261-00	ELECT	10uF	20%	50V
C822	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C823	1-124-247-61	ELECT	10uF	20%	35V
C826	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN802	1-506-481-11	PIN, CONNECTOR 2P			
* CN803	1-568-944-11	PIN, CONNECTOR 6P			
CN804	1-568-955-11	PIN, CONNECTOR 6P			
CN805	1-506-469-11	PIN, CONNECTOR 4P			
CN807	1-568-940-21	PIN, CONNECTOR 2P			
CN814	1-779-554-21	CONNECTOR, FFC (LIF (NON-ZIF)) 17P			
		< DIODE >			
D806	8-719-404-50	DIODE MA111-TX			
D807	8-719-404-50	DIODE MA111-TX			
D808	8-719-404-50	DIODE MA111-TX			
D809	8-719-404-50	DIODE MA111-TX			
D810	8-719-069-56	DIODE UDZSTE-176.2B			
		< FERRITE BEAD >			
FB800	1-414-813-11	FERRITE	0uH		
FB801	1-414-813-11	FERRITE	0uH		
FB802	1-414-813-11	FERRITE	0uH		
		< COIL >			
L801	1-412-959-11	INDUCTOR	47uH		
		< TRANSISTOR >			
Q803	8-729-808-42	TRANSISTOR	2SD1624-T-TD		
Q804	8-729-808-42	TRANSISTOR	2SD1624-T-TD		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R838	1-216-805-11	METAL CHIP	47	5%	1/10W
R841	1-216-809-11	METAL CHIP	100	5%	1/10W
R842	1-216-809-11	METAL CHIP	100	5%	1/10W
R843	1-216-809-11	METAL CHIP	100	5%	1/10W
R850	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
R855	1-216-809-11	METAL CHIP	100	5%	1/10W
R874	1-216-839-11	METAL CHIP	33K	5%	1/10W
		< TRANSFORMER >			
T801	1-437-416-11	TRANSFORMER, DC-DC CONVERTER			
**********					
	A-4433-609-A	DVD BOARD, COMPLETE (S550: CH)			
	A-4676-925-A	DVD BOARD, COMPLETE (S550: AEP, UK)			
	A-4729-034-A	DVD BOARD, COMPLETE (S880: AEP, UK)			
	A-4730-160-A	DVD BOARD, COMPLETE (S550: KR)			
	A-4730-201-A	DVD BOARD, COMPLETE (S880: KR)			
	A-4730-605-A	DVD BOARD, COMPLETE (S550: E, MX)			
	A-4730-612-A	DVD BOARD, COMPLETE (S550: EA)			
	A-4730-616-A	DVD BOARD, COMPLETE (S550: HK, SP, MY, TW)			
	A-4730-618-A	DVD BOARD, COMPLETE (S550: CIS)			
	A-4730-620-A	DVD BOARD, COMPLETE (S550: AUS)			
	A-4730-650-A	DVD BOARD, COMPLETE (S880: AUS)			
	A-4730-652-A	DVD BOARD, COMPLETE (S880: CIS)			
	A-4730-654-A	DVD BOARD, COMPLETE (S880: EA)			
	A-4730-669-A	DVD BOARD, COMPLETE (S880: HK, SP, MY, TW)			
	A-4730-674-A	DVD BOARD, COMPLETE (S880: E, MX)			
	A-4733-713-A	DVD BOARD, COMPLETE (S880: CH)			
		**********			
		< CAPACITOR >			
C001	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C003	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C004	1-126-204-11	ELECT CHIP	47uF	20%	16V
C005	1-126-246-11	ELECT CHIP	220uF	20%	4V
C006	1-126-204-11	ELECT CHIP	47uF	20%	16V
C007	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C008	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C009	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C010	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C011	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C012	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C013	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C014	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C015	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C016	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C017	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C018	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C019	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C020	1-126-246-11	ELECT CHIP	220uF	20%	4V
C201	1-126-246-11	ELECT CHIP	220uF	20%	4V
C203	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C204	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C217	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C219	1-164-947-11	CERAMIC CHIP	0.01uF		50V

DVD

Ref. No.	Part No.	Description			Remark
C225	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C226	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C228	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C229	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C230	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C231	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C232	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C233	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C234	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C235	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C236	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C237	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C238	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C239	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C240	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C241	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C242	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C243	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C244	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C245	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C246	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C247	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C248	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C249	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C250	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C251	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C252	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C253	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C254	1-117-370-11	CERAMIC CHIP	10uF		10V
C255	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C257	1-117-370-11	CERAMIC CHIP	10uF		10V
C258	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C259	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C260	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C261	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C262	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C263	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C264	1-117-370-11	CERAMIC CHIP	10uF		10V
C265	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C266	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C267	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C268	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C269	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C270	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C271	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C274	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C301	1-117-370-11	CERAMIC CHIP	10uF		10V
C302	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C303	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C304	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C307	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C308	1-127-772-11	CERAMIC CHIP	33000PF	10%	10V
C309	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C310	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C311	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C312	1-117-370-11	CERAMIC CHIP	10uF		10V
C313	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C314	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C315	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C316	1-124-779-00	ELECT CHIP	10uF	20%	16V
C317	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C318	1-164-849-11	CERAMIC CHIP	9PF	0.5PF	50V
C319	1-164-862-11	CERAMIC CHIP	33PF	5%	50V
C320	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C355	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C356	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C401	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C402	1-117-370-11	CERAMIC CHIP	10uF		10V
C404	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C405	1-124-779-00	ELECT CHIP	10uF	20%	16V
C406	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C407	1-117-370-11	CERAMIC CHIP	10uF		10V
C408	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C409	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C410	1-124-779-00	ELECT CHIP	10uF	20%	16V
C411	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C412	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C413	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C414	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C415	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C416	1-117-370-11	CERAMIC CHIP	10uF		10V
C417	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C418	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C419	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C420	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C421	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C422	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C423	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C424	1-107-819-11	CERAMIC CHIP	0.022uF	10%	16V
C425	1-164-939-11	CERAMIC CHIP	0.0022uF	10%	50V
C426	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C427	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C428	1-164-940-11	CERAMIC CHIP	0.0033uF	10%	16V
C432	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C433	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C434	1-117-370-11	CERAMIC CHIP	10uF		10V
C435	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C436	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C503	1-127-772-11	CERAMIC CHIP	33000PF	10%	10V
C504	1-127-772-11	CERAMIC CHIP	33000PF	10%	10V
C506	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C508	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C509	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C510	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C512	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C514	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C519	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C521	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C523	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C525	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C526	1-126-395-11	ELECT	22uF	20%	16V
C527	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C528	1-126-395-11	ELECT	22uF	20%	16V
C529	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C552	1-107-820-11	CERAMIC CHIP	0.1uF		16V

Ref. No.	Part No.	Description			Remark
C600	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C601	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C602	1-117-681-11	ELECT CHIP	100uF	20%	16V
C603	1-164-858-11	CERAMIC CHIP	22PF	5%	50V
C604	1-164-868-11	CERAMIC CHIP	56PF	5%	50V
C605	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C606	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C607	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C608	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C609	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C610	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C611	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C612	1-117-370-11	CERAMIC CHIP	10uF		10V
C613	1-117-370-11	CERAMIC CHIP	10uF		10V
C614	1-124-779-00	ELECT CHIP	10uF	20%	16V
C615	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C616	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C617	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C618	1-124-779-00	ELECT CHIP	10uF	20%	16V
C619	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C620	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C621	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C622	1-124-779-00	ELECT CHIP	10uF	20%	16V
C623	1-164-850-11	CERAMIC CHIP	10PF	0.5PF	50V
C624	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C625	1-124-779-00	ELECT CHIP	10uF	20%	16V
C626	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C627	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C628	1-124-779-00	ELECT CHIP	10uF	20%	16V
C629	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C630	1-117-370-11	CERAMIC CHIP	10uF		10V
C631	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C632	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C633	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C634	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C635	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C636	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C637	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C638	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C639	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C640	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C641	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C642	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C643	1-126-246-11	ELECT CHIP	220uF	20%	4V
C644	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C645	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C646	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C647	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C648	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C650	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C651	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C652	1-126-246-11	ELECT CHIP	220uF	20%	4V
C653	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C654	1-117-681-11	ELECT CHIP	100uF	20%	16V
C655	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C656	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C657	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C658	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C659	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C660	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C661	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C662	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C663	1-164-935-11	CERAMIC CHIP	470PF	10%	50V
C667	1-117-370-11	CERAMIC CHIP	10uF		10V
C668	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C669	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C670	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C671	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C672	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C673	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C674	1-117-370-11	CERAMIC CHIP	10uF		10V
C675	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C676	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C677	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C678	1-164-882-11	CERAMIC CHIP	220PF	5%	16V
C679	1-164-947-11	CERAMIC CHIP	0.01uF		50V
C702	1-117-370-11	CERAMIC CHIP	10uF		10V
C703	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C706	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C708	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C709	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C711	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C712	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C713	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C714	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C715	1-164-938-11	CERAMIC CHIP	0.0015uF	10%	50V
C716	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C717	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C718	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C720	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C721	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C722	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C723	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C724	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C725	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C726	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C727	1-117-370-11	CERAMIC CHIP	10uF		10V
C728	1-125-777-11	CERAMIC CHIP	0.1uF	10%	6.3V
C729	1-117-370-11	CERAMIC CHIP	10uF		10V
C730	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C740	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C741	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C742	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C743	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C744	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C745	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C752	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C760	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C761	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C762	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C763	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C764	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C765	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C766	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C767	1-107-820-11	CERAMIC CHIP	0.1uF		16V

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Ref. No.	Part No.	Description			Remark
C768	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C769	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C770	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C771	1-119-923-11	CERAMIC CHIP	0.047uF	10%	10V
C772	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C773	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C774	1-164-941-11	CERAMIC CHIP	0.0047uF	10%	16V
C775	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C776	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C777	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C778	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C779	1-117-370-11	CERAMIC CHIP	10uF		10V
C780	1-117-370-11	CERAMIC CHIP	10uF		10V
C781	1-117-370-11	CERAMIC CHIP	10uF		10V
C791	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C793	1-126-246-11	ELECT CHIP	220uF	20%	4V
C795	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C796	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C797	1-126-246-11	ELECT CHIP	220uF	20%	4V
C802	1-117-370-11	CERAMIC CHIP	10uF		10V
C803	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C804	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C807	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C808	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C809	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C810	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C811	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C812	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C813	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C815	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C817	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C818	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C819	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C837	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C838	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C839	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C840	1-117-370-11	CERAMIC CHIP	10uF		10V
C841	1-117-370-11	CERAMIC CHIP	10uF		10V
C842	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C843	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C848	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C849	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C854	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C855	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C856	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C857	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C861	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C865	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C866	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C867	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C870	1-127-772-11	CERAMIC CHIP	33000PF	10%	10V
C871	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C900	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C901	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C902	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C903	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C905	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C906	1-164-934-11	CERAMIC CHIP	330PF	10%	50V
C907	1-164-937-11	CERAMIC CHIP	0.001uF	10%	50V
C908	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C909	1-164-222-91	CERAMIC CHIP	0.22uF		25V
C910	1-104-905-11	DOUBLE LAYER	0.22F		5.5V
C911	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C912	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C913	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C914	1-164-943-11	CERAMIC CHIP	0.01uF	10%	16V
C917	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C918	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C921	1-164-874-11	CERAMIC CHIP	100PF	5%	50V
C922	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C925	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C926	1-107-820-11	CERAMIC CHIP	0.1uF		16V
C927	1-107-820-11	CERAMIC CHIP	0.1uF		16V
		< CONNECTOR >			
CN001	1-784-371-31	CONNECTOR, FFC/FPC 12P			
CN002	1-778-957-11	CONNECTOR, FFC/FPC 29P			
CN003	1-784-373-31	CONNECTOR, FFC/FPC 14P			
CN004	1-784-376-31	CONNECTOR, FFC/FPC 17P			
CN005	1-784-376-31	CONNECTOR, FFC/FPC 17P			
CN006	1-784-377-31	CONNECTOR, FFC/FPC 18P			
CN008	1-815-954-21	PIN, CONNECTOR (PC BOARD) 13P			
CN201	1-784-364-31	CONNECTOR, FFC/FPC 4P			
* CN301	1-580-756-21	PIN, CONNECTOR (SMD) 7P			
CN401	1-778-957-11	CONNECTOR, FFC/FPC 29P			
CN900	1-784-367-31	CONNECTOR, FFC/FPC 8P			
		< DIODE >			
D900	8-719-053-18	DIODE 1SR154-400TE-25			
D901	8-719-053-18	DIODE 1SR154-400TE-25			
D902	8-719-988-61	DIODE 1SS355TE-17			
D903	8-719-988-61	DIODE 1SS355TE-17			
D904	8-719-988-61	DIODE 1SS355TE-17			
D907	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB001	1-469-324-21	FERRITE	0uH		
FB003	1-469-324-21	FERRITE	0uH		
FB004	1-469-324-21	FERRITE	0uH		
FB005	1-469-324-21	FERRITE	0uH		
FB006	1-469-324-21	FERRITE	0uH		
FB007	1-469-324-21	FERRITE	0uH		
FB008	1-469-324-21	FERRITE	0uH		
FB009	1-469-324-21	FERRITE	0uH		
FB010	1-469-324-21	FERRITE	0uH		
FB011	1-469-324-21	FERRITE	0uH		
FB012	1-469-324-21	FERRITE	0uH		
FB013	1-469-324-21	FERRITE	0uH		
FB014	1-469-324-21	FERRITE	0uH		
FB201	1-469-324-21	FERRITE	0uH		
FB202	1-469-324-21	FERRITE	0uH		
FB901	1-469-324-21	FERRITE	0uH		
FB902	1-469-324-21	FERRITE	0uH		

Ref. No.	Part No.	Description	Remark
		< FILTER/FERRITE BEAD >	
FL003	1-234-177-21	FERRITE 0uH	
FL004	1-234-177-21	FERRITE 0uH	
FL005	1-233-893-21	FILTER, CHIP EMI	
FL006	1-234-177-21	FERRITE 0uH	
FL202	1-233-893-21	FILTER, CHIP EMI	
FL203	1-233-893-21	FILTER, CHIP EMI	
FL204	1-233-893-21	FILTER, CHIP EMI	
FL301	1-233-893-21	FILTER, CHIP EMI	
FL303	1-233-893-21	FILTER, CHIP EMI	
FL304	1-233-893-21	FILTER, CHIP EMI	
FL401	1-233-893-21	FILTER, CHIP EMI	
FL402	1-233-893-21	FILTER, CHIP EMI	
FL603	1-234-177-21	FERRITE 0uH	
FL604	1-234-177-21	FERRITE 0uH	
FL605	1-234-177-21	FERRITE 0uH	
FL606	1-234-177-21	FERRITE 0uH	
FL701	1-233-893-21	FILTER, CHIP EMI	
FL702	1-233-893-21	FILTER, CHIP EMI	
FL703	1-233-893-21	FILTER, CHIP EMI	
FL704	1-233-893-21	FILTER, CHIP EMI	
FL705	1-233-893-21	FILTER, CHIP EMI	
FL706	1-233-893-21	FILTER, CHIP EMI	
FL807	1-233-893-21	FILTER, CHIP EMI	
FL810	1-233-893-21	FILTER, CHIP EMI	
FL811	1-233-893-21	FILTER, CHIP EMI	
FL812	1-233-893-21	FILTER, CHIP EMI	
		< IC >	
IC001	8-759-583-47	IC uPC2933T-E2	
IC002	8-759-473-95	IC uPC2905T-E1	
IC003	8-759-473-95	IC uPC2905T-E1	
IC004	8-759-473-95	IC uPC2905T-E1	
IC005	8-759-583-47	IC uPC2933T-E2	
IC006	6-700-398-01	IC uPC2918T-E1	
IC202	6-702-368-01	IC MT48LC4M32B2-7	
IC203	8-759-668-01	IC BR9040F-D-E2	
IC204	6-802-149-01	IC MR27V3202F-8NTPZ020	
IC206	6-700-404-01	IC ZIVA-5P-B0	
IC215	6-700-437-01	IC SN74ALVCH16841DGGR	
IC301	8-752-933-58	IC CXP973064-224R	
IC302	8-759-640-41	IC BR24C08F-E2	
IC303	6-700-407-01	IC SM8707GV-G-E2	
IC401	8-752-408-73	IC CXD3068Q	
IC402	8-759-058-43	IC NJM3404AV (TE2)	
IC501	6-702-157-01	IC FAN8035L	
IC600	8-759-052-52	IC NJM78M05DL1A-TE1	
IC601	6-701-011-01	IC uPC2910T-E1	
IC602	8-759-560-56	IC PCM1800E/2K	
IC603	8-759-337-40	IC NJM2904V (TE2)	
IC604	8-759-538-16	IC IDT71V016S15PH-AUTL	
IC605	8-759-835-63	IC NJM2391DL1-26 (TE1)	
IC606	8-759-825-15	IC LC89056W-E	
IC607	8-759-698-76	IC CXD9617R	
IC608	6-701-111-01	IC AK4382AVT-E2	
IC610	8-759-337-40	IC NJM2904V (TE2)	
IC612	6-700-278-01	IC CXD9633Q	

Ref. No.	Part No.	Description	Remark
IC701	8-752-412-43	IC CXD1882R	
IC702	8-759-637-50	IC TA48M025F (TE16L)	
IC703	8-759-058-43	IC NJM3404AV (TE2)	
IC706	8-759-564-30	IC MSM51V18165F-60TSKR1	
IC801	8-752-407-50	IC CXD2752R	
IC802	8-759-058-64	IC TC7S32FU (TE85R)	
IC803	6-702-563-01	IC TC7W74FK-TE85L	
IC808	6-702-336-01	IC MSM56V16160F-8TK7R1	
IC812	8-759-549-15	IC SN74LV245APWR	
IC813	8-759-549-15	IC SN74LV245APWR	
IC814	8-759-680-48	IC TC7WH157FK (TE85R)	
IC900	8-759-238-47	IC TC74HCT7007AF (EL)	
IC901	6-802-479-01	IC uPD70F3033BYGF-M10-3BA	
IC902	8-759-828-32	IC PT8300	
IC903	8-759-427-92	IC PST9126NL	
IC904	8-759-326-78	IC PST9140NL	
IC905	8-759-234-20	IC TC7S08F-TE85L	
IC907	8-759-326-78	IC PST9140NL	
		< RESISTOR >	
JW900	1-218-941-81	RES-CHIP 100 5% 1/16W	
JW903	1-218-990-11	SHORT CHIP 0	
		< COIL >	
L301	1-414-754-11	INDUCTOR 10uH	
L600	1-414-754-11	INDUCTOR 10uH	
L602	1-414-754-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q001	8-729-901-00	TRANSISTOR DTC124EKA-T146	
Q002	6-550-220-01	TRANSISTOR 2SB906 (TE16L)	
Q003	8-729-901-00	TRANSISTOR DTC124EKA-T146	
Q004	6-550-220-01	TRANSISTOR 2SB906 (TE16L)	
Q301	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q302	8-729-900-53	TRANSISTOR DTC114EKA-T146	
Q900	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q901	8-729-230-63	TRANSISTOR 2SD1819A-QRS-TX	
Q902	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q903	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q906	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q907	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q908	8-729-901-00	TRANSISTOR DTC124EKA-T146	
Q909	8-729-901-00	TRANSISTOR DTC124EKA-T146	
Q910	8-729-901-00	TRANSISTOR DTC124EKA-T146	
Q911	8-729-901-00	TRANSISTOR DTC124EKA-T146	
Q912	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	
Q913	8-729-026-49	TRANSISTOR 2SA1037AK-T146-QR	
		< RESISTOR/FERRITE BEAD >	
R001	1-218-990-11	SHORT CHIP 0	
R002	1-218-990-11	SHORT CHIP 0	
R003	1-218-990-11	SHORT CHIP 0	
R004	1-218-990-11	SHORT CHIP 0	
R005	1-218-990-11	SHORT CHIP 0	
R006	1-218-990-11	SHORT CHIP 0	
R007	1-218-990-11	SHORT CHIP 0	
R008	1-218-990-11	SHORT CHIP 0	

DVD

Ref. No.	Part No.	Description			Remark
R009	1-218-953-11	RES-CHIP	1K	5%	1/16W
R010	1-218-990-11	SHORT CHIP	0		
R011	1-216-198-00	RES-CHIP	1K	5%	1/8W
R013	1-218-990-11	SHORT CHIP	0		
R014	1-218-990-11	SHORT CHIP	0		
R015	1-218-990-11	SHORT CHIP	0		
R016	1-218-990-11	SHORT CHIP	0		
R017	1-218-990-11	SHORT CHIP	0		
R018	1-218-990-11	SHORT CHIP	0		
R019	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R020	1-218-990-11	SHORT CHIP	0		
R021	1-218-990-11	SHORT CHIP	0		
R022	1-218-990-11	SHORT CHIP	0 (AEP, UK, CIS)		
R023	1-218-990-11	SHORT CHIP	0		
R024	1-218-990-11	SHORT CHIP	0 (AEP, UK, CIS)		
R025	1-218-990-11	SHORT CHIP	0		
R026	1-218-990-11	SHORT CHIP	0		
R027	1-218-990-11	SHORT CHIP	0		
R028	1-218-990-11	SHORT CHIP	0		
R029	1-218-990-11	SHORT CHIP	0		
R030	1-218-990-11	SHORT CHIP	0		
R031	1-218-990-11	SHORT CHIP	0		
R032	1-218-990-11	SHORT CHIP	0		
R033	1-218-990-11	SHORT CHIP	0		
R034	1-218-990-11	SHORT CHIP	0		
R035	1-218-990-11	SHORT CHIP	0		
R036	1-218-990-11	SHORT CHIP	0		
R037	1-218-990-11	SHORT CHIP	0		
R038	1-218-990-11	SHORT CHIP	0		
R039	1-218-990-11	SHORT CHIP	0		
R040	1-218-990-11	SHORT CHIP	0		
R041	1-218-990-11	SHORT CHIP	0		
R042	1-218-990-11	SHORT CHIP	0		
R043	1-218-990-11	SHORT CHIP	0		
R044	1-218-990-11	SHORT CHIP	0		
R045	1-218-990-11	SHORT CHIP	0		
R046	1-218-990-11	SHORT CHIP	0		
R047	1-218-990-11	SHORT CHIP	0		
R048	1-218-990-11	SHORT CHIP	0		
R049	1-218-990-11	SHORT CHIP	0		
R050	1-218-990-11	SHORT CHIP	0		
R051	1-218-990-11	SHORT CHIP	0		
R052	1-218-990-11	SHORT CHIP	0		
R053	1-218-990-11	SHORT CHIP	0		
R054	1-218-990-11	SHORT CHIP	0		
R055	1-218-990-11	SHORT CHIP	0		
R056	1-218-990-11	SHORT CHIP	0		
R057	1-218-990-11	SHORT CHIP	0		
R058	1-218-990-11	SHORT CHIP	0		
R059	1-218-990-11	SHORT CHIP	0		
R060	1-218-990-11	SHORT CHIP	0		
R061	1-218-990-11	SHORT CHIP	0		
R062	1-218-990-11	SHORT CHIP	0		
R063	1-218-990-11	SHORT CHIP	0		
R064	1-218-990-11	SHORT CHIP	0		
R065	1-218-990-11	SHORT CHIP	0		
R066	1-218-953-11	RES-CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R067	1-216-817-11	RES-CHIP	470	5%	1/10W
R068	1-218-990-11	SHORT CHIP	0		
R069	1-218-990-11	SHORT CHIP	0		
R070	1-218-990-11	SHORT CHIP	0		
R072	1-218-990-11	SHORT CHIP	0		
R074	1-218-990-11	SHORT CHIP	0		
R075	1-218-990-11	SHORT CHIP	0		
R077	1-218-990-11	SHORT CHIP	0		
R079	1-216-198-00	RES-CHIP	1K	5%	1/8W
R202	1-218-990-11	SHORT CHIP	0		
R203	1-208-869-11	METAL CHIP	180	0.5%	1/16W
R206	1-218-990-11	SHORT CHIP	0		
R207	1-218-285-11	RES-CHIP	75	5%	1/10W
R208	1-218-285-11	RES-CHIP	75	5%	1/10W
R209	1-218-285-11	RES-CHIP	75	5%	1/10W
R210	1-218-285-11	RES-CHIP	75	5%	1/10W
R211	1-218-990-11	SHORT CHIP	0		
R212	1-208-643-11	RES-CHIP	22	5%	1/16W
R213	1-218-990-11	SHORT CHIP	0		
R214	1-218-990-11	SHORT CHIP	0		
R215	1-218-935-11	RES-CHIP	33	5%	1/16W
R216	1-218-935-11	RES-CHIP	33	5%	1/16W
R217	1-218-935-11	RES-CHIP	33	5%	1/16W
R218	1-218-935-11	RES-CHIP	33	5%	1/16W
R219	1-218-935-11	RES-CHIP	33	5%	1/16W
R220	1-218-935-11	RES-CHIP	33	5%	1/16W
R221	1-218-935-11	RES-CHIP	33	5%	1/16W
R222	1-218-935-11	RES-CHIP	33	5%	1/16W
R223	1-218-935-11	RES-CHIP	33	5%	1/16W
R224	1-218-935-11	RES-CHIP	33	5%	1/16W
R225	1-218-935-11	RES-CHIP	33	5%	1/16W
R226	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R227	1-218-935-11	RES-CHIP	33	5%	1/16W
R228	1-218-935-11	RES-CHIP	33	5%	1/16W
R229	1-218-935-11	RES-CHIP	33	5%	1/16W
R230	1-218-935-11	RES-CHIP	33	5%	1/16W
R231	1-218-935-11	RES-CHIP	33	5%	1/16W
R232	1-218-990-11	SHORT CHIP	0		
R233	1-218-965-11	RES-CHIP	10K	5%	1/16W
R234	1-218-285-11	METAL CHIP	75	5%	1/10W
R235	1-218-990-11	SHORT CHIP	0		
R236	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R238	1-218-941-81	RES-CHIP	100	5%	1/16W
R239	1-218-973-11	RES-CHIP	47K	5%	1/16W
R241	1-218-965-11	RES-CHIP	10K	5%	1/16W
R244	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R245	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R246	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R247	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R248	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R249	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R250	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R251	1-218-965-11	RES-CHIP	10K	5%	1/16W
R252	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R253	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R256	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R257	1-469-681-21	FERRITE, EMI (SMD)			
R258	1-469-681-21	FERRITE, EMI (SMD)			

Ref. No.	Part No.	Description			Remark
R259	1-469-681-21	FERRITE, EMI (SMD)			
R260	1-469-681-21	FERRITE, EMI (SMD)			
R261	1-469-681-21	FERRITE, EMI (SMD)			
R262	1-218-285-11	METAL CHIP	75	5%	1/10W
R263	1-218-285-11	METAL CHIP	75	5%	1/10W
R264	1-218-285-11	METAL CHIP	75	5%	1/10W
R265	1-218-285-11	METAL CHIP	75	5%	1/10W
R266	1-218-285-11	METAL CHIP	75	5%	1/10W
R303	1-208-643-11	RES-CHIP	22	5%	1/16W
R304	1-208-643-11	RES-CHIP	22	5%	1/16W
R305	1-218-965-11	RES-CHIP	10K	5%	1/16W
R306	1-208-643-11	RES-CHIP	22	5%	1/16W
R307	1-208-643-11	RES-CHIP	22	5%	1/16W
R308	1-208-643-11	RES-CHIP	22	5%	1/16W
R309	1-218-990-11	SHORT CHIP	0		
R311	1-208-643-11	RES-CHIP	22	5%	1/16W
R312	1-218-965-11	RES-CHIP	10K	5%	1/16W
R313	1-218-990-11	SHORT CHIP	0		
R314	1-218-990-11	SHORT CHIP	0		
R315	1-218-990-11	SHORT CHIP	0		
R316	1-218-965-11	RES-CHIP	10K	5%	1/16W
R317	1-218-941-81	RES-CHIP	100	5%	1/16W
R318	1-218-941-81	RES-CHIP	100	5%	1/16W
R319	1-218-990-11	SHORT CHIP	0		
R320	1-218-990-11	SHORT CHIP	0		
R321	1-218-941-81	RES-CHIP	100	5%	1/16W
R322	1-218-990-11	SHORT CHIP	0		
R323	1-218-941-81	RES-CHIP	100	5%	1/16W
R324	1-218-990-11	SHORT CHIP	0		
R326	1-218-941-81	RES-CHIP	100	5%	1/16W
R327	1-218-941-81	RES-CHIP	100	5%	1/16W
R328	1-218-941-81	RES-CHIP	100	5%	1/16W
R329	1-218-941-81	RES-CHIP	100	5%	1/16W
R330	1-218-941-81	RES-CHIP	100	5%	1/16W
R331	1-218-945-11	RES-CHIP	220	5%	1/16W
R332	1-218-965-11	RES-CHIP	10K	5%	1/16W
R333	1-218-965-11	RES-CHIP	10K	5%	1/16W
R335	1-208-643-11	RES-CHIP	22	5%	1/16W
R336	1-218-990-11	SHORT CHIP	0		
R337	1-218-941-81	RES-CHIP	100	5%	1/16W
R338	1-218-990-11	SHORT CHIP	0		
R339	1-218-990-11	SHORT CHIP	0		
R340	1-218-990-11	SHORT CHIP	0		
R341	1-218-990-11	SHORT CHIP	0		
R342	1-218-990-11	SHORT CHIP	0		
R344	1-218-953-11	RES-CHIP	1K	5%	1/16W
R345	1-218-990-11	SHORT CHIP	0		
R346	1-218-953-11	RES-CHIP	1K	5%	1/16W
R349	1-218-990-11	SHORT CHIP	0		
R350	1-218-941-81	RES-CHIP	100	5%	1/16W
R351	1-218-990-11	SHORT CHIP	0		
R352	1-218-990-11	SHORT CHIP	0		
R353	1-218-965-11	RES-CHIP	10K	5%	1/16W
R354	1-218-989-11	RES-CHIP	1M	5%	1/16W
R355	1-208-643-11	RES-CHIP	22	5%	1/16W
R356	1-218-939-11	RES-CHIP	68	5%	1/16W
R357	1-218-939-11	RES-CHIP	68	5%	1/16W
R358	1-218-939-11	RES-CHIP	68	5%	1/16W
R359	1-218-965-11	RES-CHIP	10K	5%	1/16W
R360	1-218-965-11	RES-CHIP	10K	5%	1/16W
R361	1-218-965-11	RES-CHIP	10K	5%	1/16W
R362	1-218-990-11	RES-CHIP	0	5%	1/16W
R363	1-218-965-11	RES-CHIP	10K	5%	1/16W
R364	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R401	1-218-990-11	SHORT CHIP	0		
R402	1-218-990-11	SHORT CHIP	0		
R403	1-218-990-11	SHORT CHIP	0		
R404	1-218-990-11	SHORT CHIP	0		
R405	1-218-990-11	SHORT CHIP	0		
R406	1-218-990-11	SHORT CHIP	0		
R407	1-218-990-11	SHORT CHIP	0		
R408	1-218-990-11	SHORT CHIP	0		
R409	1-218-990-11	SHORT CHIP	0		
R410	1-218-990-11	SHORT CHIP	0		
R411	1-218-990-11	SHORT CHIP	0		
R412	1-218-965-11	RES-CHIP	10K	5%	1/16W
R413	1-218-965-11	RES-CHIP	10K	5%	1/16W
R415	1-218-990-11	SHORT CHIP	0		
R416	1-218-990-11	SHORT CHIP	0		
R417	1-218-990-11	SHORT CHIP	0		
R418	1-218-965-11	RES-CHIP	10K	5%	1/16W
R419	1-218-975-11	RES-CHIP	68K	5%	1/16W
R420	1-218-990-11	SHORT CHIP	0		
R421	1-218-953-11	RES-CHIP	1K	5%	1/16W
R423	1-218-953-11	RES-CHIP	1K	5%	1/16W
R424	1-218-990-11	SHORT CHIP	0		
R425	1-218-953-11	RES-CHIP	1K	5%	1/16W
R426	1-218-953-11	RES-CHIP	1K	5%	1/16W
R427	1-218-990-11	SHORT CHIP	0		
R428	1-218-953-11	RES-CHIP	1K	5%	1/16W
R429	1-218-953-11	RES-CHIP	1K	5%	1/16W
R430	1-218-953-11	RES-CHIP	1K	5%	1/16W
R431	1-218-990-11	SHORT CHIP	0		
R432	1-218-990-11	SHORT CHIP	0		
R433	1-218-973-11	RES-CHIP	47K	5%	1/16W
R434	1-218-973-11	RES-CHIP	47K	5%	1/16W
R435	1-218-990-11	SHORT CHIP	0		
R436	1-218-990-11	SHORT CHIP	0		
R437	1-218-973-11	RES-CHIP	47K	5%	1/16W
R438	1-218-990-11	SHORT CHIP	0		
R439	1-218-947-11	RES-CHIP	330	5%	1/16W
R440	1-218-973-11	RES-CHIP	47K	5%	1/16W
R441	1-218-953-11	RES-CHIP	1K	5%	1/16W
R442	1-218-965-11	RES-CHIP	10K	5%	1/16W
R443	1-218-973-11	RES-CHIP	47K	5%	1/16W
R444	1-218-985-11	RES-CHIP	470K	5%	1/16W
R445	1-218-953-11	RES-CHIP	1K	5%	1/16W
R446	1-218-965-11	RES-CHIP	10K	5%	1/16W
R447	1-218-965-11	RES-CHIP	10K	5%	1/16W
R448	1-218-953-11	RES-CHIP	1K	5%	1/16W
R449	1-218-971-11	RES-CHIP	33K	5%	1/16W
R450	1-218-953-11	RES-CHIP	1K	5%	1/16W
R451	1-218-965-11	RES-CHIP	10K	5%	1/16W
R452	1-218-989-11	RES-CHIP	1M	5%	1/16W
R453	1-218-989-11	RES-CHIP	1M	5%	1/16W

DVD

Ref. No.	Part No.	Description			Remark
R455	1-218-977-11	RES-CHIP	100K	5%	1/16W
R457	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R510	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R511	1-208-939-11	METAL CHIP	150K	0.5%	1/16W
R512	1-218-974-11	METAL CHIP	56K	0.5%	1/16W
R513	1-218-974-11	METAL CHIP	56K	0.5%	1/16W
R514	1-218-965-11	RES-CHIP	10K	5%	1/16W
R516	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R517	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R519	1-218-977-11	RES-CHIP	100K	5%	1/16W
R520	1-218-965-11	RES-CHIP	10K	5%	1/16W
R521	1-218-977-11	RES-CHIP	100K	5%	1/16W
R522	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R523	1-218-965-11	RES-CHIP	10K	5%	1/16W
R524	1-218-965-11	RES-CHIP	10K	5%	1/16W
R525	1-218-965-11	RES-CHIP	10K	5%	1/16W
R527	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R528	1-218-990-11	SHORT CHIP	0		
R529	1-218-971-11	RES-CHIP	33K	5%	1/16W
R530	1-218-974-11	RES-CHIP	56K	5%	1/16W
R531	1-218-990-11	SHORT CHIP	0		
R532	1-218-990-11	SHORT CHIP	0		
R533	1-218-971-11	RES-CHIP	33K	5%	1/16W
R534	1-218-974-11	RES-CHIP	56K	5%	1/16W
R535	1-218-990-11	SHORT CHIP	0		
R536	1-220-210-11	RES-CHIP	200K	5%	1/16W
R538	1-218-977-11	RES-CHIP	100K	5%	1/16W
R540	1-218-965-11	RES-CHIP	10K	5%	1/16W
R541	1-218-977-11	RES-CHIP	100K	5%	1/16W
R544	1-218-977-11	RES-CHIP	100K	5%	1/16W
R545	1-218-977-11	RES-CHIP	100K	5%	1/16W
R553	1-218-990-11	SHORT CHIP	0		
R554	1-218-990-11	SHORT CHIP	0		
R579	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R580	1-218-971-11	RES-CHIP	33K	5%	1/16W
R581	1-218-966-81	RES-CHIP	12K	5%	1/16W
R582	1-218-965-11	RES-CHIP	10K	5%	1/16W
R583	1-218-965-11	RES-CHIP	10K	5%	1/16W
R597	1-218-990-11	SHORT CHIP	0		
R600	1-218-941-81	RES-CHIP	100	5%	1/16W
R602	1-218-989-11	RES-CHIP	1M	5%	1/16W
R603	1-218-941-81	RES-CHIP	100	5%	1/16W
R604	1-218-941-81	RES-CHIP	100	5%	1/16W
R605	1-218-941-81	RES-CHIP	100	5%	1/16W
R606	1-218-941-81	RES-CHIP	100	5%	1/16W
R607	1-218-941-81	RES-CHIP	100	5%	1/16W
R608	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R609	1-218-949-11	RES-CHIP	470	5%	1/16W
R610	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R611	1-218-941-81	RES-CHIP	100	5%	1/16W
R612	1-218-973-11	RES-CHIP	47K	5%	1/16W
R613	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R614	1-218-971-11	RES-CHIP	33K	5%	1/16W
R615	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R616	1-218-962-11	RES-CHIP	5.6K	5%	1/16W
R617	1-218-990-11	SHORT CHIP	0		
R618	1-218-961-11	RES-CHIP	4.7K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R619	1-218-973-11	RES-CHIP	47K	5%	1/16W
R620	1-218-941-81	RES-CHIP	100	5%	1/16W
R621	1-218-941-81	RES-CHIP	100	5%	1/16W
R622	1-218-941-81	RES-CHIP	100	5%	1/16W
R623	1-218-941-81	RES-CHIP	100	5%	1/16W
R624	1-218-941-81	RES-CHIP	100	5%	1/16W
R625	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R626	1-218-953-11	RES-CHIP	1K	5%	1/16W
R627	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R628	1-218-941-81	RES-CHIP	100	5%	1/16W
R629	1-218-941-81	RES-CHIP	100	5%	1/16W
R630	1-218-949-11	RES-CHIP	470	5%	1/16W
R631	1-218-941-81	RES-CHIP	100	5%	1/16W
R634	1-218-953-11	RES-CHIP	1K	5%	1/16W
R635	1-218-965-11	RES-CHIP	10K	5%	1/16W
R636	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R637	1-218-941-81	RES-CHIP	100	5%	1/16W
R639	1-218-941-81	RES-CHIP	100	5%	1/16W
R640	1-218-941-81	RES-CHIP	100	5%	1/16W
R642	1-218-941-81	RES-CHIP	100	5%	1/16W
R644	1-218-965-11	RES-CHIP	10K	5%	1/16W
R645	1-218-965-11	RES-CHIP	10K	5%	1/16W
R646	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R647	1-218-945-11	RES-CHIP	220	5%	1/16W
R648	1-218-941-81	RES-CHIP	100	5%	1/16W
R649	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R650	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R651	1-218-965-11	RES-CHIP	10K	5%	1/16W
R652	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R653	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R654	1-218-945-11	RES-CHIP	220	5%	1/16W
R655	1-218-941-81	RES-CHIP	100	5%	1/16W
R656	1-218-990-11	SHORT CHIP	0		
R657	1-218-953-11	RES-CHIP	1K	5%	1/16W
R658	1-218-941-81	RES-CHIP	100	5%	1/16W
R659	1-218-935-11	RES-CHIP	33	5%	1/16W
R660	1-218-945-11	RES-CHIP	220	5%	1/16W
R661	1-218-941-81	RES-CHIP	100	5%	1/16W
R662	1-218-941-81	RES-CHIP	100	5%	1/16W
R663	1-218-941-81	RES-CHIP	100	5%	1/16W
R664	1-218-941-81	RES-CHIP	100	5%	1/16W
R665	1-218-965-11	RES-CHIP	10K	5%	1/16W
R666	1-218-941-81	RES-CHIP	100	5%	1/16W
R667	1-218-941-81	RES-CHIP	100	5%	1/16W
R668	1-218-953-11	RES-CHIP	1K	5%	1/16W
R669	1-218-953-11	RES-CHIP	1K	5%	1/16W
R671	1-218-941-81	RES-CHIP	100	5%	1/16W
R672	1-218-941-81	RES-CHIP	100	5%	1/16W
R673	1-218-945-11	RES-CHIP	220	5%	1/16W
R674	1-218-945-11	RES-CHIP	220	5%	1/16W
R675	1-218-945-11	RES-CHIP	220	5%	1/16W
R676	1-218-945-11	RES-CHIP	220	5%	1/16W
R677	1-218-945-11	RES-CHIP	220	5%	1/16W
R679	1-218-941-81	RES-CHIP	100	5%	1/16W
R680	1-218-941-81	RES-CHIP	100	5%	1/16W
R682	1-218-965-11	RES-CHIP	10K	5%	1/16W
R684	1-218-965-11	RES-CHIP	10K	5%	1/16W
R685	1-218-953-11	RES-CHIP	1K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R686	1-218-965-11	RES-CHIP	10K	5%	1/16W
R687	1-218-953-11	RES-CHIP	1K	5%	1/16W
R688	1-218-965-11	RES-CHIP	10K	5%	1/16W
R689	1-218-965-11	RES-CHIP	10K	5%	1/16W
R692	1-218-941-81	RES-CHIP	100	5%	1/16W
R695	1-218-941-81	RES-CHIP	100	5%	1/16W
R696	1-218-945-11	RES-CHIP	220	5%	1/16W
R699	1-218-941-81	RES-CHIP	100	5%	1/16W
R700	1-218-965-11	RES-CHIP	10K	5%	1/16W
R702	1-218-965-11	RES-CHIP	10K	5%	1/16W
R703	1-218-965-11	RES-CHIP	10K	5%	1/16W
R704	1-218-965-11	RES-CHIP	10K	5%	1/16W
R705	1-218-965-11	RES-CHIP	10K	5%	1/16W
R706	1-218-965-11	RES-CHIP	10K	5%	1/16W
R707	1-218-941-81	RES-CHIP	100	5%	1/16W
R708	1-218-985-11	RES-CHIP	470K	5%	1/16W
R709	1-218-979-11	RES-CHIP	150K	5%	1/16W
R710	1-218-965-11	RES-CHIP	10K	5%	1/16W
R711	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R712	1-218-965-11	RES-CHIP	10K	5%	1/16W
R713	1-218-965-11	RES-CHIP	10K	5%	1/16W
R714	1-218-965-11	RES-CHIP	10K	5%	1/16W
R715	1-218-965-11	RES-CHIP	10K	5%	1/16W
R716	1-218-941-81	RES-CHIP	100	5%	1/16W
R717	1-218-977-11	RES-CHIP	100K	5%	1/16W
R718	1-218-965-11	RES-CHIP	10K	5%	1/16W
R719	1-218-953-11	RES-CHIP	1K	5%	1/16W
R720	1-218-953-11	RES-CHIP	1K	5%	1/16W
R721	1-208-719-11	METAL CHIP	33K	0.5%	1/16W
R724	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
R725	1-208-689-11	METAL CHIP	1.8K	0.5%	1/16W
R726	1-208-935-11	METAL CHIP	100K	0.5%	1/16W
R727	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
R728	1-208-707-11	METAL CHIP	10K	0.5%	1/16W
R729	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R730	1-208-643-11	RES-CHIP	22	5%	1/16W
R731	1-208-643-11	RES-CHIP	22	5%	1/16W
R732	1-218-965-11	RES-CHIP	10K	5%	1/16W
R735	1-218-965-11	RES-CHIP	10K	5%	1/16W
R737	1-218-965-11	RES-CHIP	10K	5%	1/16W
R738	1-208-643-11	RES-CHIP	22	5%	1/16W
R741	1-208-643-11	RES-CHIP	22	5%	1/16W
R742	1-208-643-11	RES-CHIP	22	5%	1/16W
R743	1-208-643-11	RES-CHIP	22	5%	1/16W
R744	1-208-643-11	RES-CHIP	22	5%	1/16W
R745	1-218-973-11	RES-CHIP	47K	5%	1/16W
R746	1-218-973-11	RES-CHIP	47K	5%	1/16W
R747	1-218-971-11	RES-CHIP	33K	5%	1/16W
R748	1-218-971-11	RES-CHIP	33K	5%	1/16W
R750	1-218-965-11	RES-CHIP	10K	5%	1/16W
R752	1-218-990-11	SHORT CHIP	0		
R753	1-218-990-11	SHORT CHIP	0		
R754	1-218-990-11	SHORT CHIP	0		
R755	1-218-990-11	SHORT CHIP	0		
R756	1-218-990-11	SHORT CHIP	0		
R757	1-218-990-11	SHORT CHIP	0		
R758	1-218-990-11	SHORT CHIP	0		
R759	1-218-990-11	SHORT CHIP	0		
R762	1-218-969-11	RES-CHIP	22K	5%	1/16W
R763	1-218-964-11	RES-CHIP	8.2K	5%	1/16W
R764	1-218-989-11	RES-CHIP	1M	5%	1/16W
R765	1-218-969-11	RES-CHIP	22K	5%	1/16W
R766	1-218-990-11	SHORT CHIP	0		
R767	1-218-973-11	RES-CHIP	47K	5%	1/16W
R770	1-218-990-11	SHORT CHIP	0		
R771	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R772	1-208-643-11	RES-CHIP	22	5%	1/16W
R776	1-218-990-11	SHORT CHIP	0		
R777	1-218-990-11	SHORT CHIP	0		
R778	1-218-977-11	RES-CHIP	100K	5%	1/16W
R780	1-218-990-11	SHORT CHIP	0		
R781	1-218-990-11	SHORT CHIP	0		
R799	1-218-990-11	SHORT CHIP	0		
R800	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R803	1-218-941-81	RES-CHIP	100	5%	1/16W
R804	1-218-990-11	SHORT CHIP	0		
R805	1-218-965-11	RES-CHIP	10K	5%	1/16W
R806	1-218-990-11	SHORT CHIP	0		
R821	1-208-643-11	RES-CHIP	22	5%	1/16W
R822	1-208-643-11	RES-CHIP	22	5%	1/16W
R823	1-208-643-11	RES-CHIP	22	5%	1/16W
R826	1-208-643-11	RES-CHIP	22	5%	1/16W
R827	1-218-941-81	RES-CHIP	100	5%	1/16W
R828	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R829	1-218-941-81	RES-CHIP	100	5%	1/16W
R830	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R831	1-218-971-11	RES-CHIP	33K	5%	1/16W
R833	1-218-990-11	SHORT CHIP	0		
R834	1-218-990-11	SHORT CHIP	0		
R835	1-218-990-11	SHORT CHIP	0		
R836	1-218-990-11	SHORT CHIP	0		
R837	1-218-990-11	SHORT CHIP	0		
R838	1-218-990-11	SHORT CHIP	0		
R839	1-218-961-11	RES-CHIP	4.7K	5%	1/16W
R840	1-218-990-11	SHORT CHIP	0		
R841	1-218-990-11	SHORT CHIP	0		
R842	1-218-965-11	RES-CHIP	10K	5%	1/16W
R843	1-218-990-11	SHORT CHIP	0		
R844	1-218-990-11	SHORT CHIP	0		
R845	1-218-990-11	SHORT CHIP	0		
R846	1-218-990-11	SHORT CHIP	0		
R847	1-208-643-11	RES-CHIP	22	5%	1/16W
R848	1-208-643-11	RES-CHIP	22	5%	1/16W
R849	1-208-643-11	RES-CHIP	22	5%	1/16W
R850	1-208-643-11	RES-CHIP	22	5%	1/16W
R851	1-218-990-11	SHORT CHIP	0		
R852	1-218-990-11	SHORT CHIP	0		
R865	1-218-990-11	SHORT CHIP	0		
R866	1-218-990-11	SHORT CHIP	0		
R867	1-218-990-11	SHORT CHIP	0		
R882	1-218-965-11	RES-CHIP	10K	5%	1/16W
R883	1-218-965-11	RES-CHIP	10K	5%	1/16W
R884	1-218-965-11	RES-CHIP	10K	5%	1/16W
R885	1-218-965-11	RES-CHIP	10K	5%	1/16W
R886	1-218-965-11	RES-CHIP	10K	5%	1/16W

DVD

Ref. No.	Part No.	Description			Remark
R887	1-218-965-11	RES-CHIP	10K	5%	1/16W
R888	1-218-965-11	RES-CHIP	10K	5%	1/16W
R889	1-218-965-11	RES-CHIP	10K	5%	1/16W
R899	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R900	1-218-941-81	RES-CHIP	100	5%	1/16W
R901	1-218-941-81	RES-CHIP	100	5%	1/16W
R902	1-218-941-81	RES-CHIP	100	5%	1/16W
R903	1-218-941-81	RES-CHIP	100	5%	1/16W
R904	1-218-941-81	RES-CHIP	100	5%	1/16W
R905	1-218-941-81	RES-CHIP	100	5%	1/16W
R906	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R907	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R908	1-218-965-11	RES-CHIP	10K	5%	1/16W
R909	1-218-965-11	RES-CHIP	10K	5%	1/16W
R910	1-218-941-81	RES-CHIP	100	5%	1/16W
R911	1-218-941-81	RES-CHIP	100	5%	1/16W
R912	1-218-941-81	RES-CHIP	100	5%	1/16W
R913	1-218-941-81	RES-CHIP	100	5%	1/16W
R914	1-218-941-81	RES-CHIP	100	5%	1/16W
R915	1-218-941-81	RES-CHIP	100	5%	1/16W
R916	1-218-941-81	RES-CHIP	100	5%	1/16W
R917	1-218-952-11	RES-CHIP	820	5%	1/16W
R918	1-218-952-11	RES-CHIP	820	5%	1/16W
R919	1-218-965-11	RES-CHIP	10K	5%	1/16W
R920	1-218-941-81	RES-CHIP	100	5%	1/16W
R921	1-218-941-81	RES-CHIP	100	5%	1/16W
R922	1-218-965-11	RES-CHIP	10K	5%	1/16W
R926	1-218-941-81	RES-CHIP	100	5%	1/16W
R929	1-218-967-11	RES-CHIP	15K	5%	1/16W
R930	1-218-965-11	RES-CHIP	10K	5%	1/16W
R931	1-218-953-11	RES-CHIP	1K	5%	1/16W
R932	1-218-965-11	RES-CHIP	10K	5%	1/16W
R933	1-218-965-11	RES-CHIP	10K	5%	1/16W
R934	1-218-965-11	RES-CHIP	10K	5%	1/16W
R935	1-218-961-11	RES-CHIP	4.7K	5%	1/16W (S880)
R936	1-218-953-11	RES-CHIP	1K	5%	1/16W
R937	1-218-965-11	RES-CHIP	10K	5%	1/16W
R938	1-218-965-11	RES-CHIP	10K	5%	1/16W
R939	1-218-965-11	RES-CHIP	10K	5%	1/16W
R940	1-218-941-81	RES-CHIP	100	5%	1/16W
R941	1-218-965-11	RES-CHIP	10K	5%	1/16W
R942	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R943	1-218-959-11	RES-CHIP	3.3K	5%	1/16W
R944	1-218-965-11	RES-CHIP	10K	5%	1/16W
R945	1-218-965-11	RES-CHIP	10K	5%	1/16W
R946	1-218-965-11	RES-CHIP	10K	5%	1/16W
R948	1-218-965-11	RES-CHIP	10K	5%	1/16W
R949	1-218-965-11	RES-CHIP	10K	5%	1/16W
R950	1-218-973-11	RES-CHIP	47K	5%	1/16W
R951	1-218-965-11	RES-CHIP	10K	5%	1/16W
R952	1-218-941-81	RES-CHIP	100	5%	1/16W
R954	1-218-965-11	RES-CHIP	10K	5%	1/16W
R955	1-218-965-11	RES-CHIP	10K	5%	1/16W
R956	1-218-965-11	RES-CHIP	10K	5%	1/16W
R957	1-218-965-11	RES-CHIP	10K	5%	1/16W
R959	1-218-953-11	RES-CHIP	1K	5%	1/16W
R960	1-218-965-11	RES-CHIP	10K	5%	1/16W
R961	1-218-965-11	RES-CHIP	10K	5%	1/16W
R962	1-218-965-11	RES-CHIP	10K	5%	1/16W
R963	1-218-943-11	RES-CHIP	150	5%	1/16W (CIS)
R963	1-218-947-11	RES-CHIP	330	5%	1/16W (CH)
R963	1-218-953-11	RES-CHIP	1K	5%	1/16W (E, MX)
R963	1-218-961-11	RES-CHIP	4.7K	5%	1/16W (EA, AUS)
R963	1-218-965-11	RES-CHIP	10K	5%	1/16W (HK, SP, MY, TW, KR)
R964	1-218-973-11	RES-CHIP	47K	5%	1/16W
R965	1-218-965-11	RES-CHIP	10K	5%	1/16W
R966	1-218-945-11	RES-CHIP	220	5%	1/16W
R967	1-218-941-81	RES-CHIP	100	5%	1/16W
R968	1-218-941-81	RES-CHIP	100	5%	1/16W
R969	1-218-943-11	RES-CHIP	150	5%	1/16W (S880)
R969	1-218-965-11	RES-CHIP	10K	5%	1/16W (S550)
R970	1-218-965-11	RES-CHIP	10K	5%	1/16W
R971	1-218-965-11	RES-CHIP	10K	5%	1/16W
R972	1-218-965-11	RES-CHIP	10K	5%	1/16W
R974	1-218-990-11	SHORT CHIP	0		
R977	1-218-969-11	RES-CHIP	22K	5%	1/16W
R978	1-218-953-11	RES-CHIP	1K	5%	1/16W
R979	1-218-973-11	RES-CHIP	47K	5%	1/16W
R980	1-218-973-11	RES-CHIP	47K	5%	1/16W
R981	1-218-953-11	RES-CHIP	1K	5%	1/16W (EA)
R981	1-218-955-11	RES-CHIP	1.5K	5%	1/16W (AUS)
R981	1-218-961-11	RES-CHIP	4.7K	5%	1/16W (CIS, E, MX, CH)
R981	1-218-965-11	RES-CHIP	10K	5%	1/16W (AEP, UK)
R985	1-218-985-11	RES-CHIP	470K	5%	1/16W
R986	1-218-973-11	RES-CHIP	47K	5%	1/16W
R987	1-218-973-11	RES-CHIP	47K	5%	1/16W
R988	1-218-990-11	SHORT CHIP	0		
R989	1-218-990-11	SHORT CHIP	0		
R990	1-218-967-11	RES-CHIP	15K	5%	1/16W
R991	1-218-965-11	RES-CHIP	10K	5%	1/16W
R992	1-218-965-11	RES-CHIP	10K	5%	1/16W
R993	1-218-953-11	RES-CHIP	1K	5%	1/16W
R998	1-218-965-11	RES-CHIP	10K	5%	1/16W
R999	1-218-955-11	RES-CHIP	1.5K	5%	1/16W
		< COMPOSITION CIRCUIT BLOCK >			
* RB901	1-233-270-11	NETWORK, RES (8 GANG) 10K			
		< VIBRATOR >			
X301	1-781-945-21	VIBRATOR, CERAMIC (20MHz)			
X302	1-795-630-11	VIBRATOR, CRYSTAL (27MHz)			
X600	1-781-465-21	VIBRATOR, CRYSTAL (12.288MHz)			
X601	1-795-363-21	VIBRATOR, CERAMIC (13.5MHz)			
X901	1-781-945-21	VIBRATOR, CERAMIC (20MHz)			

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D SENSOR **ENCODER** **FL** **HP** **I/O**

Ref. No.	Part No.	Description			Remark
		D SENSOR BOARD			
		**********			
		< PHOTO SENSOR >			
IC731	8-749-017-45	SENSOR, PHOTO RPR-220C1N			
**********					
		ENCODER BOARD			
		**********			
		< SWITCH >			
S741	1-477-161-11	ENCODER (MODE)			
**********					
	1-685-082-11	FL BOARD			
		*********			
	4-240-402-01	FL HOLDER			
		< CAPACITOR >			
C808	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C813	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C814	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C815	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C816	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C817	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C818	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C819	1-162-974-11	CERAMIC CHIP	0.01uF		50V
		< FLUORESCENT INDICATOR TUBE >			
FL801	1-518-824-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC801	8-759-827-68	IC NJL62H400A-1			
IC802	6-700-112-01	IC MSM9202-05GS-KDR1			
		< RESISTOR >			
R815	1-216-805-11	METAL CHIP	47	5%	1/10W
R839	1-216-833-11	METAL CHIP	10K	5%	1/10W
R840	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
**********					
	1-685-083-11	HP BOARD			
		*********			
		< CAPACITOR >			
C902	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C903	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C904	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C991	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C992	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
		< CONNECTOR >			
* CN900	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
		< FERRITE BEAD >			
FB803	1-469-144-21	FERRITE	0uH		
FB804	1-469-144-21	FERRITE	0uH		

Ref. No.	Part No.	Description			Remark
FB805	1-469-144-21	FERRITE	0uH		
		< JACK >			
J900	1-566-891-21	JACK (PHONES)			
		< COIL >			
L900	1-410-387-11	INDUCTOR CHIP	33uH		
L901	1-410-387-11	INDUCTOR CHIP	33uH		
L902	1-469-144-21	FERRITE	0uH		
L903	1-469-144-21	FERRITE	0uH		
		< TRANSISTOR >			
Q900	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q901	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
		< RESISTOR >			
R900	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R901	1-216-807-11	METAL CHIP	68	5%	1/10W
R902	1-216-807-11	METAL CHIP	68	5%	1/10W
R903	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R991	1-218-990-11	SHORT, CHIP	0		
R992	1-218-990-11	SHORT, CHIP	0		
**********					
	A-4676-939-A	I/O BOARD, COMPLETE (S550: AEP, UK, CIS)			
	A-4729-045-A	I/O BOARD, COMPLETE (S880: AEP, UK, CIS)			
	A-4729-906-A	I/O BOARD, COMPLETE (E, AUS, HK, EA, MX, SP, MY, TW)			
	A-4730-166-A	I/O BOARD, COMPLETE (KR)			
	A-4731-092-A	I/O BOARD, COMPLETE (CH)			
		**********			
		< CAPACITOR >			
C201	1-162-959-11	CERAMIC CHIP	330PF	5%	50V (AEP, UK, CIS)
C202	1-126-934-11	ELECT	220uF	20%	16V
C203	1-164-156-11	CERAMIC CHIP	0.1uF		25V (AEP, UK, CIS)
C204	1-164-739-11	CERAMIC CHIP	560PF	5%	50V (AEP, UK, CIS)
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP, UK, KR, CH, CIS)
C206	1-164-380-11	CERAMIC CHIP	51PF	5%	50V (AEP, UK, CIS)
C207	1-126-963-11	ELECT	4.7uF	20%	50V (AEP, UK, CIS)
C208	1-162-924-11	CERAMIC CHIP	56PF	5%	50V (AEP, UK, CIS)
C209	1-126-947-11	ELECT	47uF	20%	16V (AEP, UK, CIS)
C210	1-128-551-11	ELECT	22uF	20%	25V
C211	1-128-551-11	ELECT	22uF	20%	25V
C213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C214	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C215	1-115-156-11	CERAMIC CHIP	1uF		10V
C216	1-115-156-11	CERAMIC CHIP	1uF		10V
C217	1-126-934-11	ELECT	220uF	20%	16V
C218	1-126-947-11	ELECT	47uF	20%	35V
C220	1-128-551-11	ELECT	22uF	20%	25V
C221	1-124-234-00	ELECT	22uF	20%	16V

I/O

Ref. No.	Part No.	Description			Remark
C222	1-124-234-00	ELECT	22uF	20%	16V
C223	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C224	1-128-551-11	ELECT	22uF	20%	25V
C225	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C226	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C227	1-124-234-00	ELECT	22uF	20%	16V
C228	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C229	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C230	1-126-964-11	ELECT	10uF	20%	50V
C231	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C232	1-126-964-11	ELECT	10uF	20%	50V
C233	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C234	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C235	1-128-551-11	ELECT	22uF	20%	25V
C236	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C237	1-128-551-11	ELECT	22uF	20%	25V
C238	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C239	1-128-551-11	ELECT	22uF	20%	25V
C240	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C241	1-128-551-11	ELECT	22uF	20%	25V
C242	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C243	1-126-157-11	ELECT	10uF	20%	16V
C244	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C245	1-126-964-11	ELECT	10uF	20%	50V
C248	1-128-551-11	ELECT	22uF	20%	25V
C249	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C265	1-126-157-11	ELECT	10uF	20%	16V
C267	1-124-584-00	ELECT	100uF	20%	10V
C268	1-126-933-11	ELECT	100uF	20%	16V
C269	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C272	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C274	1-126-157-11	ELECT	10uF	20%	16V
C275	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C276	1-126-964-11	ELECT	10uF	20%	50V
C277	1-128-551-11	ELECT	22uF	20%	25V
C278	1-126-157-11	ELECT	10uF	20%	16V
C279	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C280	1-126-960-11	ELECT	1uF	20%	50V
C281	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C282	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C283	1-126-960-11	ELECT	1uF	20%	50V
C284	1-126-933-11	ELECT	100uF	20%	16V
C285	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C286	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C287	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C288	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C289	1-126-964-11	ELECT	10uF	20%	50V
C290	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C291	1-126-964-11	ELECT	10uF	20%	50V
C292	1-126-934-11	ELECT	220uF	20%	16V
C293	1-126-933-11	ELECT	100uF	20%	16V
C294	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C295	1-126-935-11	ELECT	470uF	20%	10V
C296	1-126-933-11	ELECT	100uF	20%	16V
C297	1-126-934-11	ELECT	220uF	20%	16V
C298	1-126-933-11	ELECT	100uF	20%	16V
C299	1-126-933-11	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remark
C300	1-128-551-11	ELECT	22uF	20%	25V
C301	1-126-933-11	ELECT	100uF	20%	16V
C302	1-128-551-11	ELECT	22uF	20%	25V
C330	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C608	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C609	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
		< CONNECTOR >			
CN201	1-784-733-11	CONNECTOR, FFC 11P			
CN202	1-779-566-21	CONNECTOR, FFC (LIF (NON-ZIF)) 29P			
CN203	1-779-551-21	CONNECTOR, FFC (LIF (NON-ZIF)) 14P			
CN205	1-506-481-11	PIN, CONNECTOR 2P			
		< DIODE/SHORT >			
D201	8-719-056-78	DIODE UDZ-TE-17-4.3B (AEP, UK, CIS)			
D202	1-216-295-11	SHORT			
D203	8-719-404-50	DIODE MA111-TX			
D204	1-216-864-11	SHORT			
		< IC >			
IC201	8-759-557-36	IC BU1924F-E2 (AEP, UK, CIS)			
IC202	8-759-385-76	IC MC14052 BDR2			
IC204	6-600-013-01	IC TORX179L (OPTICAL DIGITAL IN VIDEO2)			
IC206	6-702-334-01	IC MM1510			
IC207	8-759-696-10	IC NJM2235V (TE2)			
IC208	6-702-335-01	IC MM1568			
IC209	8-759-284-49	IC NJM2285V-TE2			
		< JACK >			
J202	1-694-920-11	TERMINAL BOARD (S TERMINAL+1P) (MONITOR OUT)			
J205	1-816-604-11	JACK, PIN 6P (VIDEO 2/COMPONENT VIDEO OUT)			
J206	1-816-605-11	JACK, PIN 6P (VIDEO 1)			
		< COIL >			
L202	1-469-525-11	INDUCTOR	10uH		
L205	1-469-525-11	INDUCTOR	10uH		
L206	1-469-525-11	INDUCTOR	10uH		
L207	1-469-525-11	INDUCTOR	10uH		
L209	1-469-525-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q201	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR (AEP, UK, CIS)		
Q205	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q206	8-729-901-00	TRANSISTOR	DTC124EKA-T146		
Q207	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q208	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q210	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q214	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q220	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q221	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q222	8-729-026-50	TRANSISTOR	2SA1037AK-T146		
Q223	8-729-901-00	TRANSISTOR	DTC124EKA-T146		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R201	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (AEP, UK, CIS)
R202	1-216-821-11	METAL CHIP	1K	5%	1/10W (AEP, UK, CIS)
R203	1-216-843-11	METAL CHIP	68K	5%	1/10W (AEP, UK, CIS)
R204	1-216-841-11	METAL CHIP	47K	5%	1/10W (AEP, UK, CIS)
R205	1-216-845-11	METAL CHIP	100K	5%	1/10W (AEP, UK, CIS)
R206	1-216-853-11	METAL CHIP	470K	5%	1/10W (AEP, UK, CIS)
R207	1-216-814-11	METAL CHIP	270	5%	1/10W (AEP, UK, CIS)
R208	1-216-813-11	METAL CHIP	220	5%	1/10W
R209	1-216-813-11	METAL CHIP	220	5%	1/10W
R210	1-216-813-11	METAL CHIP	220	5%	1/10W
R211	1-216-813-11	METAL CHIP	220	5%	1/10W
R212	1-216-813-11	METAL CHIP	220	5%	1/10W
R213	1-216-841-11	METAL CHIP	47K	5%	1/10W
R214	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R215	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R216	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R217	1-216-839-11	METAL CHIP	33K	5%	1/10W
R218	1-216-833-11	METAL CHIP	10K	5%	1/10W
R219	1-216-809-11	METAL CHIP	100	5%	1/10W
R220	1-216-845-11	METAL CHIP	100K	5%	1/10W
R221	1-216-845-11	METAL CHIP	100K	5%	1/10W
R222	1-216-839-11	METAL CHIP	33K	5%	1/10W
R223	1-216-833-11	METAL CHIP	10K	5%	1/10W
R224	1-216-809-11	METAL CHIP	100	5%	1/10W
R225	1-216-839-11	METAL CHIP	33K	5%	1/10W
R226	1-216-839-11	METAL CHIP	33K	5%	1/10W
R227	1-216-821-11	METAL CHIP	1K	5%	1/10W
R228	1-216-821-11	METAL CHIP	1K	5%	1/10W
R229	1-216-845-11	METAL CHIP	100K	5%	1/10W
R230	1-216-845-11	METAL CHIP	100K	5%	1/10W
R231	1-218-285-11	METAL CHIP	75	5%	1/10W
R232	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R233	1-216-833-11	METAL CHIP	10K	5%	1/10W
R235	1-216-841-11	METAL CHIP	47K	5%	1/10W
R236	1-216-833-11	METAL CHIP	10K	5%	1/10W
R237	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R238	1-216-833-11	METAL CHIP	10K	5%	1/10W
R241	1-216-841-11	METAL CHIP	47K	5%	1/10W
R242	1-216-833-11	METAL CHIP	10K	5%	1/10W
R243	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R244	1-216-833-11	METAL CHIP	10K	5%	1/10W
R246	1-216-841-11	METAL CHIP	47K	5%	1/10W
R247	1-216-833-11	METAL CHIP	10K	5%	1/10W
R249	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R250	1-216-833-11	METAL CHIP	10K	5%	1/10W
R251	1-218-285-11	METAL CHIP	75	5%	1/10W
R252	1-216-833-11	METAL CHIP	10K	5%	1/10W
R253	1-216-841-11	METAL CHIP	47K	5%	1/10W
R254	1-218-285-11	METAL CHIP	75	5%	1/10W
R255	1-216-809-11	METAL CHIP	100	5%	1/10W
R256	1-216-833-11	METAL CHIP	10K	5%	1/10W
R259	1-218-285-11	METAL CHIP	75	5%	1/10W
R265	1-216-833-11	METAL CHIP	10K	5%	1/10W
R266	1-216-833-11	METAL CHIP	10K	5%	1/10W
R267	1-218-285-11	METAL CHIP	75	5%	1/10W
R268	1-218-285-11	METAL CHIP	75	5%	1/10W
R269	1-218-285-11	METAL CHIP	75	5%	1/10W
R270	1-218-285-11	METAL CHIP	75	5%	1/10W
R273	1-218-285-11	METAL CHIP	75	5%	1/10W
R278	1-216-833-11	METAL CHIP	10K	5%	1/10W
R286	1-216-833-11	METAL CHIP	10K	5%	1/10W
R290	1-216-853-11	METAL CHIP	470K	5%	1/10W
R291	1-216-853-11	METAL CHIP	470K	5%	1/10W
R292	1-216-821-11	METAL CHIP	1K	5%	1/10W
R293	1-216-821-11	METAL CHIP	1K	5%	1/10W
R294	1-216-815-11	METAL CHIP	330	5%	1/10W
R295	1-216-815-11	METAL CHIP	330	5%	1/10W
R300	1-216-864-11	SHORT			
R301	1-216-864-11	SHORT			
R302	1-216-864-11	SHORT			
R303	1-216-864-11	SHORT			
		< VIBRATOR >			
X201	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)			(AEP, UK, CIS)
**********					
	A-4676-932-A	POWER BOARD, COMPLETE			(AEP, UK, CIS, HK, SP, MY, AUS, CH)
	A-4730-623-A	POWER BOARD, COMPLETE (E)			
	A-4730-615-A	POWER BOARD, COMPLETE (EA)			
	A-4730-164-A	POWER BOARD, COMPLETE (KR)			
	A-4730-608-A	POWER BOARD, COMPLETE (MX, TW)			
		**********			
	7-685-548-14	SCREW +BTP 3X12 TYPE2 N-S			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
⚠C901	1-126-163-11	ELECT	4.7uF	20%	50V
⚠C902	1-104-705-11	MYLAR	0.1uF	20%	250V
⚠C903	1-104-705-11	MYLAR	0.1uF	20%	250V
⚠C904	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
⚠C905	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
⚠C909	1-113-920-11	CERAMIC	2200PF	20%	250V
⚠C910	1-113-920-11	CERAMIC	2200PF	20%	250V
⚠C911	1-113-920-11	CERAMIC	2200PF	20%	250V
⚠C912	1-100-192-11	ELECT	1000uF	20%	200V (MX, TW)
⚠C912	1-165-911-21	ELECT	390uF	20%	450V (EXCEPT MX, TW)
⚠C913	1-117-452-11	FILM	3300PF	5%	630V
⚠C914	1-119-772-11	ELECT	47uF	20%	35V
C915	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
⚠C916	1-117-824-11	FILM	2200PF	3%	1.5KV (MX, TW)
⚠C916	1-104-332-11	FILM	470PF	10%	2KV (EXCEPT MX, TW)
C918	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

POWER

Ref. No.	Part No.	Description			Remark
⚠C919	1-164-315-11	CERAMIC CHIP	470PF	5%	50V (MX, TW)
⚠C919	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (EXCEPT MX, TW)
C920	1-117-454-11	FILM	4700PF	5%	630V
C921	1-115-819-11	ELECT	2200uF	20%	35V
C922	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C923	1-115-819-11	ELECT	2200uF	20%	35V
C924	1-126-953-11	ELECT	2200uF	20%	35V
C925	1-126-160-11	ELECT	1uF	20%	50V
C926	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C927	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C928	1-126-953-11	ELECT	2200uF	20%	35V
C929	1-124-584-00	ELECT	100uF	20%	10V
C930	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C931	1-165-723-21	ELECT	1000uF		
C932	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C933	1-165-723-21	ELECT	1000uF		
C934	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C935	1-128-950-21	ELECT	1000uF		16V
C936	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C937	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
⚠C938	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
⚠C939	1-117-699-11	CERAMIC	0.001uF		250V
C941	1-126-947-11	ELECT	47uF	20%	16V
C943	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C946	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
		< CONNECTOR >			
CN902	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN903	1-506-996-11	PIN, CONNECTOR (PC BOARD) 14P			
CN904	1-565-731-11	PLUG, CONNECTOR (2.5mm) 5P			
		< DIODE >			
⚠D902	8-719-022-92	DIODE	RBV-604 (MX, TW)		
⚠D902	8-719-312-05	DIODE	RBV-606 (EXCEPT MX, TW)		
D904	8-719-109-97	DIODE	MTZJ-T-77-6.8B		
⚠D905	8-719-991-33	DIODE	1SS133T-77		
⚠D906	8-719-200-91	DIODE	11EQS10-TA1		
⚠D907	8-719-991-33	DIODE	1SS133T-77		
⚠D908	6-500-241-01	DIODE	SARS03		
D911	8-719-313-14	DIODE	FML-22S		
D912	8-719-109-93	DIODE	RD6.2ESB2		
D913	8-719-404-50	DIODE	MA111-TX		
D914	8-719-312-08	DIODE	FMB-G16L		
D915	8-719-200-82	DIODE	11ES2		
D916	8-719-312-08	DIODE	FMB-G16L		
D917	8-719-200-82	DIODE	11ES2-NTA1B		
⚠D919	8-719-084-21	DIODE	10E6N-TA1B2		
⚠D920	8-719-084-21	DIODE	10E6N-TA1B2		
D921	8-719-210-21	DIODE	11EQS04-TA1B		
⚠D931	8-719-110-53	DIODE	MTZJ-T-77-20B		
⚠D932	8-719-924-13	DIODE	MTZJ-T-77-22B		
⚠D933	8-719-200-91	DIODE	11EQS10-TA1		
D990	8-719-404-50	DIODE	MA111-TX		

Ref. No.	Part No.	Description			Remark
		< GROUND TERMINAL >			
EB901	1-537-770-21	TERMINAL BOARD, GROUND			
EB902	1-537-770-21	TERMINAL BOARD, GROUND			
EB903	1-537-770-21	TERMINAL BOARD, GROUND			
		< IC >			
⚠IC901	6-702-338-01	IC	STR-F6238 (MX, TW)		
⚠IC901	6-703-098-01	IC	STR-F6267D (EXCEPT MX, TW)		
IC902	6-700-388-01	IC	SE-B2		
IC903	8-759-474-09	IC	SI-8050S-LF1101		
IC904	8-759-332-29	IC	M51945BL		
IC905	8-759-450-47	IC	BA05T		
IC906	6-700-813-01	IC	SI-8033JF		
IC908	6-701-021-01	IC	SI-8120JF		
IC909	8-759-970-89	IC	BA10358F-T1		
		< COIL >			
L901	1-424-860-11	INDUCTOR	10uH		
L902	1-456-183-11	COIL, CHOKE	150uH		
L903	1-456-182-11	COIL, CHOKE	100uH		
L904	1-414-398-11	INDUCTOR	10uH		
L905	1-414-398-11	INDUCTOR	10uH		
L906	1-414-398-11	INDUCTOR	10uH		
L907	1-414-398-11	INDUCTOR	10uH		
L908	1-414-398-11	INDUCTOR	10uH		
L909	1-456-213-11	COIL, CHOKE	100uH		
L910	1-414-398-11	INDUCTOR	10uH		
L911	1-414-398-11	INDUCTOR	10uH		
		< LINE FILTER >			
⚠LF901	1-456-081-11	FILTER, LINE (EXCEPT MX, TW)			
⚠LF901	1-456-082-11	FILTER, LINE (MX, TW)			
⚠LF902	1-456-081-11	FILTER, LINE (EXCEPT MX, TW)			
⚠LF902	1-456-082-11	FILTER, LINE (MX, TW)			
		< IC >			
⚠PC901	8-749-019-04	IC	TLP421		
		< TRANSISTOR >			
Q901	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q902	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q903	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q904	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
⚠Q905	8-729-111-29	TRANSISTOR	2SD1616A-TP-LK		
Q906	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q910	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q911	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q912	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q914	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q990	8-729-026-67	TRANSISTOR	2SB1640 (TP)		
Q991	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
Q992	8-729-901-81	TRANSISTOR	2SC2412K-T-146-R		
		< RESISTOR >			
⚠R901	1-216-813-11	METAL CHIP	220	5%	1/10W
⚠R902	1-245-392-51	METAL OXIDE	0.15	5%	1W (MX, TW)

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POWER

Ref. No.	Part No.	Description			Remark
⚠R903	1-245-392-51	METAL OXIDE	0.15	5%	1W
⚠R904	1-216-341-11	METAL OXIDE	0.22	5%	1W
⚠R905	1-215-926-00	METAL OXIDE	33K	5%	3W (MX, TW)
⚠R905	1-215-928-11	METAL OXIDE	68K	5%	3W (EXCEPT MX, TW)
R906	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R907	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R908	1-215-928-11	METAL OXIDE	68K	5%	3W (EXCEPT MX, TW)
⚠R909	1-215-902-11	METAL OXIDE	47K	5%	2W
R910	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R911	1-216-828-11	METAL CHIP	3.9K	5%	1/10W
⚠R912	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
⚠R913	1-249-385-11	CARBON	2.2	5%	1/6W
R914	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R915	1-216-812-11	METAL CHIP	180	5%	1/10W
R916	1-216-821-11	METAL CHIP	1K	5%	1/10W (EXCEPT MX, TW)
R916	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (MX, TW)
R917	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R918	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R919	1-216-833-11	METAL CHIP	10K	5%	1/10W
R920	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R921	1-216-837-11	METAL CHIP	22K	5%	1/10W
R922	1-218-866-11	METAL CHIP	6.2K	0.5%	1/10W
R923	1-216-833-11	METAL CHIP	10K	5%	1/10W
R924	1-216-818-11	METAL CHIP	560	5%	1/10W
R925	1-216-812-11	METAL CHIP	180	5%	1/10W
R926	1-216-845-11	METAL CHIP	100K	5%	1/10W
R927	1-216-821-11	METAL CHIP	1K	5%	1/10W
R928	1-216-837-11	METAL CHIP	22K	5%	1/10W
R929	1-216-797-11	METAL CHIP	10	5%	1/10W
⚠R930	1-219-237-11	SOLID	3.3M	20%	1/2W (EXCEPT MX, TW)
R931	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R932	1-216-837-11	METAL CHIP	22K	5%	1/10W
R933	1-216-837-11	METAL CHIP	22K	5%	1/10W
⚠R934	1-215-904-11	METAL OXIDE	100K	5%	2W (EXCEPT MX, TW)
R935	1-216-845-11	METAL CHIP	100K	5%	1/10W
R936	1-216-847-11	METAL CHIP	150K	5%	1/10W
R937	1-216-821-11	METAL CHIP	1K	5%	1/10W
R938	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R939	1-216-049-11	METAL CHIP	1K	5%	1/10W
R940	1-216-077-00	METAL CHIP	15K	5%	1/10W
R941	1-216-833-11	METAL CHIP	10K	5%	1/10W
R942	1-216-049-11	METAL CHIP	1K	5%	1/10W
R943	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
		< TRANSFORMER >			
⚠T901	1-437-865-11	TRANSFORMER, POWER (MX, TW)			
⚠T901	1-437-866-11	TRANSFORMER, POWER (EXCEPT MX, TW)			
		< THERMISTOR >			
⚠TH901	1-803-916-11	THERMISTOR, NTC			

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POWER LED

Ref. No.	Part No.	Description			Remark
		POWER LED BOARD			
		**********			
		< LED >			
D812	8-719-074-42	LED SLR325VR-T31 (STANDBY)			
		< RESISTOR >			
R804	1-216-817-11	METAL CHIP	470	5%	1/10W

****

POWER S/W

Ref. No.	Part No.	Description			Remark
		POWER SW BOARD			
		**********			
		< CONNECTOR >			
* CN900	1-568-226-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN901	1-568-226-11	PIN, CONNECTOR (3.96mm PITCH) 2P			
		< SWITCH >			
⚠S901	1-786-377-11	SWITCH, POWER (POWER)			

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RELAY

Ref. No.	Part No.	Description			Remark
	A-4676-588-A	RELAY BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-126-795-11	ELECT	10uF	20.00%	50V
C709	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C712	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C713	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN701	1-785-732-21	CONNECTOR, FFC/FPC 18P			
		< DIODE >			
D701	8-719-083-57	DIODE UDZSTE-173.6B			
D711	8-719-069-54	DIODE UDZSTE-175.1B			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
IC711	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q701	8-729-230-49	TRANSISTOR	2SC2712-YG-TE85L		
		< RESISTOR >			
R701	1-216-819-11	METAL CHIP	680	5%	1/10W
R702	1-216-809-11	METAL CHIP	100	5%	1/10W
R703	1-216-819-11	METAL CHIP	680	5%	1/10W
R704	1-216-809-11	METAL CHIP	100	5%	1/10W
R706	1-216-833-11	METAL CHIP	10K	5%	1/10W
R707	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R709	1-216-845-11	METAL CHIP	100K	5%	1/10W
R710	1-216-821-11	METAL CHIP	1K	5%	1/10W
R711	1-216-815-11	METAL CHIP	330	5%	1/10W
R712	1-216-815-11	METAL CHIP	330	5%	1/10W
R713	1-216-815-11	METAL CHIP	330	5%	1/10W

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RELAY RF SEL

Ref. No.	Part No.	Description			Remark
R714	1-216-815-11	METAL CHIP	330	5%	1/10W
**********					
	A-4728-690-A	RF BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C001	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C002	1-124-779-00	ELECT CHIP	10uF	20%	16V
C003	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C004	1-124-779-00	ELECT CHIP	10uF	20%	16V
C005	1-128-993-21	ELECT CHIP	22uF	20%	10V
C006	1-128-993-21	ELECT CHIP	22uF	20%	10V
C008	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C009	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C010	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C011	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C014	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C015	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C016	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C017	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C018	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C019	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C020	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C021	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C022	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C023	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C024	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C029	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C030	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C031	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V
C032	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C036	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C037	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C038	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C039	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C040	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C041	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C042	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V
C049	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
		< CONNECTOR >			
CN001	1-815-031-11	CONNECTOR, FFC/FPC (ZIF) 24P			
CN002	1-784-836-21	CONNECTOR, FFC (LIF (NON-ZIF)) 29P			
CN003	1-784-861-21	CONNECTOR, FFC (LIF (NON-ZIF)) 9P			
		< DIODE >			
D001	8-719-988-61	DIODE 1SS355TE-17			
D002	8-719-988-61	DIODE 1SS355TE-17			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC001	8-752-417-53	IC CXD1881AR			
		< COIL >			
L001	1-412-031-11	INDUCTOR CHIP	47uH		
L002	1-412-031-11	INDUCTOR CHIP	47uH		
		< TRANSISTOR >			
Q001	8-729-903-46	TRANSISTOR	2SB1132-T100-QR		
Q002	8-729-903-46	TRANSISTOR	2SB1132-T100-QR		
		< RESISTOR >			
R001	1-218-668-11	METAL CHIP	100	0.5%	1/16W
R003	1-216-803-11	METAL CHIP	33	5%	1/10W
R004	1-216-803-11	METAL CHIP	33	5%	1/10W
R005	1-216-841-11	METAL CHIP	47K	5%	1/10W
R006	1-216-817-11	METAL CHIP	470	5%	1/10W
R007	1-216-803-11	METAL CHIP	33	5%	1/10W
R008	1-216-803-11	METAL CHIP	33	5%	1/10W
R009	1-216-841-11	METAL CHIP	47K	5%	1/10W
R010	1-216-817-11	METAL CHIP	470	5%	1/10W
R011	1-216-864-11	METAL CHIP	0	5%	1/10W
R012	1-216-864-11	METAL CHIP	0	5%	1/10W
R013	1-216-864-11	METAL CHIP	0	5%	1/10W
R014	1-216-864-11	METAL CHIP	0	5%	1/10W
R015	1-216-864-11	METAL CHIP	0	5%	1/10W
R016	1-216-864-11	METAL CHIP	0	5%	1/10W
R017	1-216-864-11	METAL CHIP	0	5%	1/10W
R018	1-216-864-11	METAL CHIP	0	5%	1/10W
R019	1-216-864-11	METAL CHIP	0	5%	1/10W
R020	1-216-864-11	METAL CHIP	0	5%	1/10W
R021	1-216-864-11	METAL CHIP	0	5%	1/10W
R022	1-216-813-11	METAL CHIP	220	5%	1/10W
R023	1-216-820-11	METAL CHIP	820	5%	1/10W
R024	1-216-864-11	METAL CHIP	0	5%	1/10W
R025	1-216-809-11	METAL CHIP	100	5%	1/10W
R026	1-218-718-11	METAL CHIP	12K	0.5%	1/16W
R027	1-216-864-11	METAL CHIP	0	5%	1/10W
R028	1-216-864-11	METAL CHIP	0	5%	1/10W
R029	1-216-864-11	METAL CHIP	0	5%	1/10W
R032	1-216-809-11	METAL CHIP	100	5%	1/10W
R033	1-216-864-11	METAL CHIP	0	5%	1/10W
R034	1-219-570-11	RES-CHIP	10M	5%	1/10W
R035	1-216-864-11	METAL CHIP	0	5%	1/10W
R041	1-216-821-11	METAL CHIP	1K	5%	1/10W
**********					
		SEL BOARD			
		**********			
		< SWITCH >			
S801	1-771-692-11	SWITCH, SLIDE (SCAN SELECT)			
**********					

Ref. No.	Part No.	Description			Remark
		SWITCH BOARD			
		**********			
		< SWITCH >			
S731	1-786-289-21	SWITCH, DETECTION (DISC SIZE)			
**********					
	1-685-084-11	VOL BOARD			
		**********			
		< CAPACITOR >			
C800	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
* CN820	1-568-941-11	PIN, CONNECTOR 3P			
		< SWITCH >			
S800	1-418-632-11	ENCODER, ROTARY (VOLUME)			
**********					
		MISCELLANEOUS			
		**********			
152	1-824-477-11	FLEXIBLE FLAT CABLE (17 CORE)			
153	1-824-475-11	FLEXIBLE FLAT CABLE (18 CORE)			
154	1-824-476-11	FLEXIBLE FLAT CABLE (12 CORE)			
155	1-824-624-11	FLEXIBLE FLAT CABLE (17 CORE)			
156	1-824-474-11	FLEXIBLE FLAT CABLE (29 CORE)			
157	1-824-473-11	FLEXIBLE FLAT CABLE (14 CORE)			
158	1-687-072-11	PWB, FLEXIBLE			
⚠302	1-696-169-12	CORD, POWER (AEP, UK, E, HK, EA, CIS, SP, MY, TW)			
⚠302	1-696-848-42	CORD, POWER (AUS)			
⚠302	1-769-079-22	CORD, POWER (KR)			
⚠302	1-775-789-91	CORD, POWER (MX)			
⚠302	1-782-464-22	CORD, POWER (CH)			
305	1-824-486-11	FLEXIBLE FLAT CABLE (11 CORE)			
⚠703	1-477-263-11	PICKUP UNIT (TDP022W)			
705	1-685-250-11	FLEXIBLE BOARD			
⚠F901	1-533-470-12	FUSE, GLASS TUBE (DIA. 5) (5A/125V)			
M301	1-763-861-11	FAN, DC			
M711	A-4746-746-A	MOTOR (LD) ASSY (LOADING)			
M751	A-4746-747-A	MOTOR (CK) ASSY (EJECT)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.	以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2002.08	New
1.1	2002.10	Addition of “RELEASING THE DISC SLOT LOCK” to the SERVICING NOTES (SPM-02096)
1.2	2002.12	Correction of Part No. for EXTENSION CABLE (DVD board – AMP board) Addition of EXTENSION CABLE (WITH RELAY board) (RELAY board – DVD board) (SPM-02112)
1.3	2003.01	Addition of “CHECKING OF OPERATIONS WITH REMOTE COMMANDERS OF DIFFERENT MODELS” to the SERVICING NOTES Addition of Ref. No. 156, 157, 158 (SPM-02118/03001)
1.4	2003.03	Addition of “TEST DISC LIST” to the TEST MODE Addition of “AUTO SERVO ADJUSTMENT” to the ELECTRICAL ADJUSTMENT (SPM-03008)
1.5	2004.02	Addition of Ref. No. 406 to EXPLODED VIEWS (SPM-04006)
1.6	2004.03	Addition of Chinese model to HCD-S880 Addition of “NOTE OF REPLACING THE DVD BOARD” to the SERVICING NOTES